

STOCK ASSESSMENT AND FISHERY EVALUATION REPORT  
FOR THE GROUNDFISH FISHERIES OF THE GULF OF ALASKA AND BERING  
SEA/ALEUTIAN ISLAND AREA:

ECONOMIC STATUS OF THE GROUNDFISH FISHERIES OFF ALASKA, 2000

by

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## ABSTRACT

The domestic groundfish fishery off Alaska is an important segment of the U.S. fishing industry. This report contains figures and tables which summarize various aspects of the economic performance of the fishery. Generally, data are presented for the domestic groundfish fishery for 1996 through 2000. Limited catch and ex-vessel value data are reported for earlier years in order to depict the rapid development of the domestic groundfish fishery in the 1980s and to provide a more complete historical perspective on catch. Pacific halibut (*Hippoglossus stenolepis*) is not included in data for the groundfish fishery in this report because for management purposes halibut is not part of the groundfish complex.

All but a small part of the commercial groundfish catch off Alaska occurs in the groundfish fisheries managed under the Fishery Management Plans (FMP) for the Gulf of Alaska (GOA) and the Bering Sea/Aleutian Islands area (BSAI). The footnotes for each table indicate if the estimates provided in that table are only for the fisheries with catch that is counted against the Federal TACs or if they are for other Alaska groundfish fisheries as well.

The report provides estimates of total groundfish catch, groundfish discards and discard rates, prohibited species bycatch and bycatch rates, the ex-vessel value of the groundfish catch, the ex-vessel value of the catch in other Alaska fisheries, the gross product value (F.O.B. Alaska) of the resulting groundfish seafood products, the number and sizes of vessels that participated in the Alaska groundfish fisheries, vessel activity, and employment on at-sea processors.

In addition to data from the groundfish fisheries, this report contains data on some of the external factors which, in part, determine the economic status of the fisheries. Such factors include foreign exchange rates, the prices and price indexes of products that compete with products from these fisheries, cold storage holdings, domestic per capita consumption of seafood products, and fishery imports.

The estimates in this report are intended both to provide information that can be used to describe the Alaska groundfish fisheries and to provide industry and others an opportunity to comment on the validity of these estimates. It is hoped that the industry and others will identify estimates in this report that can be improved and provide the information and methods necessary to improve them for both past and future years. There are two reasons why it is important that such improvements be made. First, with better estimates, the report will be more successful in monitoring the economic performance of the fisheries and in identifying changes in economic performance that should be addressed through regulatory actions. Second, the estimates in this report often will be used as the basis for estimating the effects of proposed fishery management actions. Therefore, improved estimates in this report will allow more informed decisions by those involved in managing and conducting the Alaska groundfish fisheries. The industry and other stakeholders in these fisheries can further improve the usefulness of this report by suggesting either what other estimates should be presented or other ways of summarizing the data that are the basis for this report.

This report also includes a working paper titled Effects of the American Fisheries Act on the Harvesting Capacity, Capacity Utilization, and Technical Efficiency of Pollock Catcher-Processors. The working paper uses data envelopment analysis and stochastic production frontier models to examine effects of the American Fisheries Act (AFA) on the fishing capacity, technical harvesting efficiency (TE), and capacity utilization (CU) of pollock catcher-processors. The results indicate that fishing capacity fell by more than thirty percent and that harvesting TE and CU measures increased relative to past years. This work provides examples of how existing data, which is currently devoid of operator costs and provides only general indicators of earnings, may be used to analyze changes in elements of fleet and vessel performance in response to management actions.

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## INTRODUCTION

The domestic groundfish fishery off Alaska is an important segment of the U.S. fishing industry. With a total catch of 1.8 million metric tons (t), a retained catch of 1.6 million t, and an ex-vessel value of \$565 million in 2000, it accounted for 44% of the weight and 16% of the ex-vessel value of total U.S. domestic landings as reported in Fisheries of the United States, 2000. The value of the 2000 catch after primary processing was approximately \$1.3 billion.

All but a small part of the commercial groundfish catch off Alaska occurs in the groundfish fisheries managed under the Fishery Management Plans (FMP) for the Gulf of Alaska (GOA) and the Bering Sea/Aleutian Islands area (BSAI). In 2000, other fisheries accounted for only 4,000 t of the catch reported above. The footnotes for each table indicate if the estimates provided in that table are only for the fisheries with catch that is counted against the Federal TACs or if they are for other Alaska groundfish fisheries as well.

The fishery management and development policies for the BSAI and GOA groundfish fisheries have resulted in high levels of catch, ex-vessel value, processed product value, exports, employment, and other measures of economic activity. The cost data required to estimate the success of these policies with respect to net benefits to either the participants in these fisheries or the Nation are not available. However, the use of the race for fish as a principal mechanism for allocating the groundfish quotas and prohibited-species catch limits among competing fishing operations has adversely affected at least some aspects of the economic performance of the fisheries. The individual fishing quota (IFQ) program for the fixed gear sablefish fishery, the community development quota (CDQ) program for BSAI groundfish, and the American Fisheries Act (AFA) cooperatives for the BSAI pollock fishery have demonstrated that eliminating the race for fish as the allocation mechanism and replacing it with a market-based allocation mechanism can decrease harvesting and processing costs, increase the value of the groundfish catch, and, in some cases, decrease the cost of providing more protection for target species, non-target species, marine mammals, and seabirds. However, the distribution of net benefits and the magnitude of net benefits to the Nation resulting from such programs are difficult to measure. As with most any management program, there are winners and losers. The working paper included at the end of this report assesses the changes in fishing capacity, technical efficiency, and capacity utilization that have occurred for pollock catcher processors due in part to the implementation of the AFA.

This report presents the economic status of groundfish fisheries off Alaska in terms of economic activity and outputs using estimates of catch, bycatch, ex-vessel prices and value, the size and level of activity of the groundfish fleet, and the weight and gross value (F.O.B. Alaska) of processed products. The catch, ex-vessel value, and fleet size and activity data are for the fishing industry activities that are reflected in Weekly Production Reports, Observer Reports, ADF&G fish tickets, and Alaska Commercial Operators' Annual Report. All catch and bycatch data reported for 1991-2000 are based on the blend estimates of total catch which are used by the National Marine Fisheries Service (NMFS) to monitor groundfish and prohibited species catch (PSC) quotas during each fishing year.

A variety of external factors influence the economic status of the fisheries. Information concerning the following external factors are included in this report: foreign exchange rates, the prices and price indexes of products that compete with products from these fisheries, U.S. cold storage holdings, and fishery imports. This report updates last year's report (Hiatt et al. 2000) and is intended to serve as a reference document for those involved in making decisions with respect to conservation, management, and use of these fishery resources.

The qualifications made in both the overview of the fisheries and the footnotes to the tables are critical to understanding the information contained in this report.

## OVERVIEW

The commercial groundfish catch off Alaska totaled 1.8 million t in 2000, compared to 1.7 million t in 1999 (Fig. 1 and Table 1). The ex-vessel value of the catch, excluding the value added by at-sea processing, increased from \$472 million in 1999 to \$565 million in 2000 (Fig. 3 and Table 2). The value of the 2000 catch after primary processing was approximately \$1.3 billion. The groundfish fisheries accounted for the largest share of the ex-vessel value of all commercial fisheries off Alaska in 2000 (51%), while the Pacific salmon (*Oncorhynchus* spp.) fishery was second with \$247 million or 22% of the total Alaska ex-vessel value (Fig. 4, Tables 2 and 3). The value of the shellfish catch amounted to \$143 million or 13% of the total for Alaska.

During the last 15 years, estimated total catch in the commercial groundfish fisheries off Alaska (including foreign and joint venture fisheries as well as the domestic fishery) varied between 1.7 and 2.4 million t (Fig. 1 and Table 1). The rapid displacement of the foreign and joint-venture fisheries by the domestic fishery between 1984 and 1991 can be seen by comparing Figures 1 and 2. By 1991, the domestic fishery accounted for all of the catch.

The peak catch occurred in 1991, in part, because blend estimates of catch and bycatch were not yet used to monitor most quotas. If they had been used, several fisheries would have been closed earlier in the year. There are three reasons why the catch estimates for 1988 through 1990 have a significant downward bias compared to the estimates for the other years. First, the domestic fishery accounted for a large part of total catch in 1988 through 1990. Second, discards were not included in the reported estimates of domestic catch prior to 1991. Based on estimates of the discard rates for 1992 through 1995, discards would have been about 16% of total catch. Finally, the blend estimates of catch, excluding at-sea discards, tend to exceed the estimates based solely on industry reports and prior to 1991 only industry reports were used to estimate retained catch in the domestic fishery. Variations in the catch estimates also reflect changes in the total allowable catches (TACs), area closures, bycatch restrictions, sea lion protection measures, and market conditions.

Walleye (Alaska) pollock (*Theragra chalcogramma*) has been the dominant species in the commercial groundfish catch off Alaska. The 2000 pollock catch of 1.21 million t accounted for 67% of the total groundfish catch of 1.82 million t (Table 1). The pollock catch was up approximately 11% from 1999. The next major species, Pacific cod (*Gadus macrocephalus*), accounted for 245,600 t or 13.5% of the total 2000 groundfish catch. The Pacific cod catch was up about 1% from a year earlier. The 2000 catch of flatfish, which includes yellowfin sole (*Pleuronectes asper*), rock sole (*Pleuronectes bilineatus*), and arrowtooth flounder (*Atheresthes stomias*) was 228,200 t, up over 22% from 1999. Pollock, Pacific cod, and flatfish comprised almost 93% of the total 2000 catch. Other important species are sablefish (*Anoplopoma fimbria*), rockfish (*Sebastodes* and *Sebastolobus* spp.), and Atka mackerel (*Pleurogrammus monopterygius*). The contributions of the major groundfish species or species groups to the total catch in the domestic groundfish fisheries off Alaska are depicted in Fig. 2.

Trawl, hook and line (including longline and jigs), and pot gear account for virtually all the catch in the BSAI and GOA groundfish fisheries. There are catcher vessels and catcher/processor vessels for each of these three gear groups. Table 4 presents catch data by area, gear, vessel type, and species.

In the last 5 years, the trawl catch averaged about 90% of the total catch, while the catch with hook and line gear accounted for 8.2%. Most species are harvested predominately by one type of gear, which typically accounts for 90% or more of the catch. The one exception is Pacific cod, where in 2000, 41% (100,000 t) was taken by trawls, 44% (109,000 t) by hook and line gear, and 15% (36,000 t) by pots. In the last five years for the BSAI and GOA as a whole, catcher vessels took 42% of the catch and catcher processor vessels took the other 58%. In each of the years 1999 and 2000, catcher vessels took about 47% of the total. That increase from earlier years is explained in part by the AFA, which among other things increased the share of the BSAI pollock TAC allocated to catcher vessels delivering to shoreside processors. The distribution of catch between catcher vessels and catcher/processor vessels differed substantially by species and area.

The discards of groundfish in the groundfish fishery have received increased attention in recent years by NMFS, the Council, Congress, and the public at large. Table 5 presents the blend estimates of the discarded groundfish catch and discard rates by gear, area, and species. The discard rate is the percent of total catch that is discarded.

Although these are the best available estimates of discards and are used for several management purposes, these estimates are not necessarily accurate. The groundfish TACs are established and monitored in terms of total catch, not retained catch; this means that both retained catch and discarded catch are counted against the TACs. Therefore, the estimation methods used by at-sea observers focus on providing good estimates of total catch by species, not on the disposition of that catch. Observers on vessels sample randomly chosen catches for species composition. For each sampled haul, they also make a rough visual approximation of the weight of the non-prohibited species in their samples that are being retained by the vessel. This is expressed as a percent of that species that is retained. Approximating this percentage is difficult because discards occur in a variety of places on fishing vessels. Discards include fish falling off of

processing conveyor belts, dumping of large portions of nets before bringing them on-board the vessel, dumping fish from the decks, size sorting by crewmen, quality control discard, etc. Because observers can only be in one place at a time, they can provide only this rough approximation based on their visual observations rather than data from direct sampling. The discard estimate derived by expanding these approximations from sampled hauls to the remainder of the catch may be inaccurate because the approximation may be inaccurate. The numbers derived from the observer discard approximation can provide users with some information as to the disposition of the catch, but the discard numbers should not be treated as sound estimates. At best, they should be considered a rough gauge of the quantity of discard occurring.

For the BSAI and GOA fisheries as a whole, the annual discard rate for groundfish decreased from 13.9% in 1996 to 8.6% in 2000 after a very large reduction in 1998 and a small increase in 1999. The 43% reduction in the overall discard rate in 1998 is the result of prohibiting pollock and Pacific cod discards in all BSAI and GOA groundfish fisheries beginning in 1998. Total discards decreased by almost 49% in 1998 with the aid of a 9.4% reduction in total catch. The prohibition was so effective in decreasing the overall discard rate because the discards of these two species had accounted for 43% of the overall discards in 1997. The benefits and costs of the reduction in discards in 1998 have not been determined. In 1998, the overall discard rates were, 9.1% and 8.1%, respectively, for the GOA and the BSAI compared to 16.2% and 14.3% in 1997.

Although the fixed gear fisheries accounted for a small part of either total catch or total discards, in 1998 and later years the overall discard rates were substantially higher for fixed gear (13.9% in 1998) than for trawl gear (7.6% in 1998). Prior to 1998, the overall discard rates had been similar for these two gear groups. This change occurred because the prohibition on pollock and Pacific cod discards had a much larger effect on trawl discards than on fixed gear discards. In the BSAI, the 2000 discard rates were 13.9% and 7.4% for fixed and trawl gear, respectively. However, in the GOA, the corresponding discard rates were 11.5% and 13.7%. One explanation for the relatively low discard rates for the BSAI trawl fishery is the dominance of the pollock fishery with very low discard rates. The mortality rates of groundfish that are discarded are thought to differ by gear or species; however, estimates of groundfish discard mortality are not available.

Target fisheries are defined by area, gear and target species. The target designations are used to estimate prohibited species catch (PSC), to apportion PSC limits by fishery (i.e., establish PSC allowances by fishery) and to monitor those PSC allowances. The target fishery designations can also be used to provide estimates of catch and bycatch data by fishery. The blend catch data are assigned to a target fishery by processor, week, area, and gear. CDQ fishing activity is targeted separately from non-CDQ fishing. Generally, the species or species group that accounts for the largest proportion of the retained catch of the TAC species is considered the target species. One exception to the dominant retained catch rule is that the target for the midwater pollock fishery is assigned if 95 percent or more of the total catch is pollock.

Tables 6 and 7, 8 and 9, and 10 and 11, respectively, provide estimates of total catch, discarded

catch, and discard rates by species, area, gear, and target fishery. Within each area or gear type, there are substantial differences in discard rates among target fisheries. Similarly, within a target fishery, there are often substantial differences in discard rates by species. Typically, in each target fishery the discard rates are very high except for the target species. The regulatory exceptions to the prohibition on pollock and Pacific cod discards explain, in part, why there are still high discard rates for these two species in some fisheries.

The bycatch of Pacific halibut, crab, Pacific salmon, and Pacific herring (*Clupea pallasii*) has been an important management issue for more than twenty years. The retention of these species was prohibited first in the foreign groundfish fisheries. This was done to ensure that groundfish fishermen had no incentive to target these species. Estimates of the bycatch of these prohibited species for 1997-2000 are summarized by area and gear in Table 12. More detailed estimates of prohibited species bycatch and of bycatch rates for 1999 and 2000 are in Tables 13 - 16. The estimates for halibut are in terms of bycatch mortality because the bycatch limits for halibut are set and monitored using estimated discard mortality rates. The estimates for the other prohibited species are of total bycatch, this is in part due to the lack of well established discard mortality rates for these species. The discard mortality rates probably approach 100% for salmon and herring in the groundfish fishery as a whole; however, the discard mortality rates for crab may be substantially lower.

An extensive at-sea observer program was developed for the foreign fleets and then extended to the domestic fishery once it had all but replaced participation by foreign fishing and processing vessels. The observer program resulted in fundamental changes in the nature of the bycatch problem. First, by providing good estimates of total groundfish catch and non-groundfish bycatch by species, it eliminated much of the concern that total fishing mortality was being underestimated due to fish that were discarded at sea. Second, it made it possible to establish, monitor and enforce the groundfish quotas in terms of total catch as opposed to only retained catch. For the groundfish fisheries, this means that both retained catch and discarded catch are counted against the TACs. Third, it made it possible to implement and enforce bycatch quotas for the non-groundfish species that by regulation had to be discarded at sea. Finally, it provided extensive information that managers and the industry could use to assess methods to reduce bycatch and bycatch mortality. In summary, the observer program provided fishery managers with the information and tools necessary to prevent bycatch from adversely affecting the stocks of the bycatch species. Therefore, the bycatch in the groundfish fishery is principally not a conservation problem but it can be an allocation problem. Although this does not make it less controversial, it does help identify the types of information and management measures that are required to reduce bycatch to the extent practicable, as is required by the MSFCMA.

Residents of Alaska and of other states, particularly Washington and Oregon, are active participants in the BSAI and GOA groundfish fisheries. Catch data by residency of vessel owners are presented in Table 17. These data were extracted from the NMFS blend catch database and from the State of Alaska groundfish fish ticket database and vessel registration file which includes the stated residency of each vessel owner. For the domestic groundfish fishery as a whole, 92% of the 2000 catch was made by vessels with owners who indicated that they were

not residents of Alaska. The catches of the two vessel owner residence groups were much closer to being equal in the Gulf where Alaskan vessels accounted for the majority of the Pacific cod and sablefish catch.

Table 18 contains the estimated ex-vessel prices that were used with estimates of retained catch to calculate ex-vessel values. The estimates of ex-vessel value by area, gear, type of vessel, and species are in Table 19. The ex-vessel value of the domestic landings in the FMP fisheries, excluding the value added by at-sea processing, increased from \$537 million in 1996 to \$591 million in 1997, decreased in 1998 to \$412 million, increased again to \$471 million in 1999, and increased to \$564 in 2000. Increases in the catch and ex-vessel prices of BSAI pollock accounted for \$52 million of the \$93 million increase in the total ex-vessel value of the groundfish fishery between 1999 and 2000. The distribution of ex-vessel value by type of vessel differed by area, gear and species. In 2000, catcher vessels accounted for 55% of the ex-vessel value of the groundfish landings compared to 47% of the total catch because catcher vessels take larger percentages of higher-priced species such as sablefish, which was \$2.56 per pound in 2000. Similarly, trawl gear accounted for only 66% of the total ex-vessel value compared to 89% of the catch because much of the trawl catch is of low-priced species such as pollock, which was about \$0.12 per pound in 2000.

Tables 20 and 20.1 summarize the ex-vessel value of catch delivered to shoreside processors by vessel-size class, gear, and area. Table 20 gives the total ex-vessel value in each category and Table 20.1 gives the ex-vessel value per vessel. The relative dominance of each of the three vessel size classes differs by area and by gear.

Table 21 provides estimates of ex-vessel value by residency of vessel owners, area, and species. For the BSAI and GOA combined, 81.3% of the 2000 ex-vessel value was accounted for by vessels with owners who indicated that they were not residents of Alaska. Vessels with owners who indicated that they were residents of Alaska accounted for 18.2% of the total and the remaining 0.5% was taken by vessels for which the residence of the owner was not known. The vessels owned by residents of Alaska accounted for a much larger share of the ex-vessel value than of catch (18.2% compared to 7.8%) because these vessels accounted for relatively large shares of the higher-priced species such as sablefish.

Table 22 presents estimates of ex-vessel value of catch delivered to shoreside processors, and Table 22.1 gives the ex-vessel value of groundfish as a percentage of the ex-vessel value of all species delivered to shoreside processors. The data in both tables are reported by processor group, which is a classification of shoreside processors based primarily on their geographical locations. The processor groups are described in the footnote to the tables.

Gross product value data, through primary processing, are summarized by category of processor and by area in Table 23, and by catcher processor size class, gear, and area in Table 24. Table 24.1 reports gross product value per vessel, categorized in the same way as Table 24. Tables 25 and 25.1 present gross product value of groundfish processed by shoreside processors and the groundfish gross product value as a percentage of all-species gross product value, both tables

broken down by processor group. The processor groups are the same as in Tables 22 and 22.1.

Estimates of the numbers and net registered tonnage of vessels in the groundfish fisheries are presented by area and gear in Table 26 and estimates of the numbers of vessels that landed groundfish are depicted in Fig. 6 by gear type.

More detailed information on the BSAI and GOA groundfish vessels by type of vessel, vessel size class, catch amount classes, and residency of vessel owners is in Tables 27 - 31. In particular, Table 28.1 gives detailed estimates of the numbers of smaller (less than 60 feet) hook-and-line catcher vessels. Estimates of the number of vessels by month, gear, and area are in Table 32. Table 33 provides estimates of the number of catcher vessel weeks by size class, area, gear, and target fishery. Table 34 contains similar information for catcher processor vessels.

The Weekly Production Reports include employment data for at-sea processors but not inshore processors. Those data are summarized in Table 35 by month and area. The data indicate that in 2000, the crew weeks totaled 98,833 with the majority of them (92,533) occurring in the BSAI groundfish fishery. In 2000, the maximum monthly employment (16,947) occurred in February. Much of this was accounted for by the BSAI pollock fishery.

Estimates of the weight and gross value of the processed products made with BSAI and GOA groundfish catch are presented by species, product form, area, and type of processor in Tables 36, 37 and 38. Product price-per-pound estimates derived from the weights and values given in these three tables are presented in Table 36.1.

There are a variety of at least partially external factors that affect the economic performance of the BSAI and GOA groundfish fisheries. They include landing market prices in Japan, wholesale prices in Japan, U.S. imports of groundfish products, U.S. per capita consumption of seafood, U.S. consumer and producer price indexes, foreign exchange rates, and U.S. cold storage holdings of groundfish. Such data are included in Tables 39 - 49.

Exchange rates and world supplies of fishery products play a major role in international trade. Exchange rates change rapidly and can significantly affect the economic status of the groundfish fisheries. There is also considerable uncertainty concerning the future conditions of stocks, the resulting quotas, and future changes to the fishery management regimes for the BSAI and GOA groundfish fisheries. The management actions taken to allocate the catch between various user groups can significantly affect the economic health of either the domestic fishery as a whole or segments of the fishery. Changes in fishery management measures are expected as the result of continued concerns with: 1) the bycatch of prohibited species; 2) the discard and utilization of groundfish catch; 3) the effects of the groundfish fisheries on marine mammals and sea birds; 4) other effects of the groundfish fisheries on the ecosystem and habitat; 5) excess harvesting and processing capacity; and 6) the allocations of groundfish quotas among user groups.

The implementation of the American Fisheries Act, related regulatory changes, and the full implementation of the Multi-species CDQ Program have the potential to address a number of

these concerns and to improve substantially the economic performance of the BSAI and GOA groundfish fisheries. They can do this by eliminating the race for fish which has given fishermen incentives to take actions that have decreased the overall benefits to the Nation from the BSAI and GOA groundfish fisheries. To the extent that these and other rights-based management measures decrease the cost of providing additional protection for target species, non-target species, marine mammals, and seabirds, they will tend to increase the levels of protection that can be justified.

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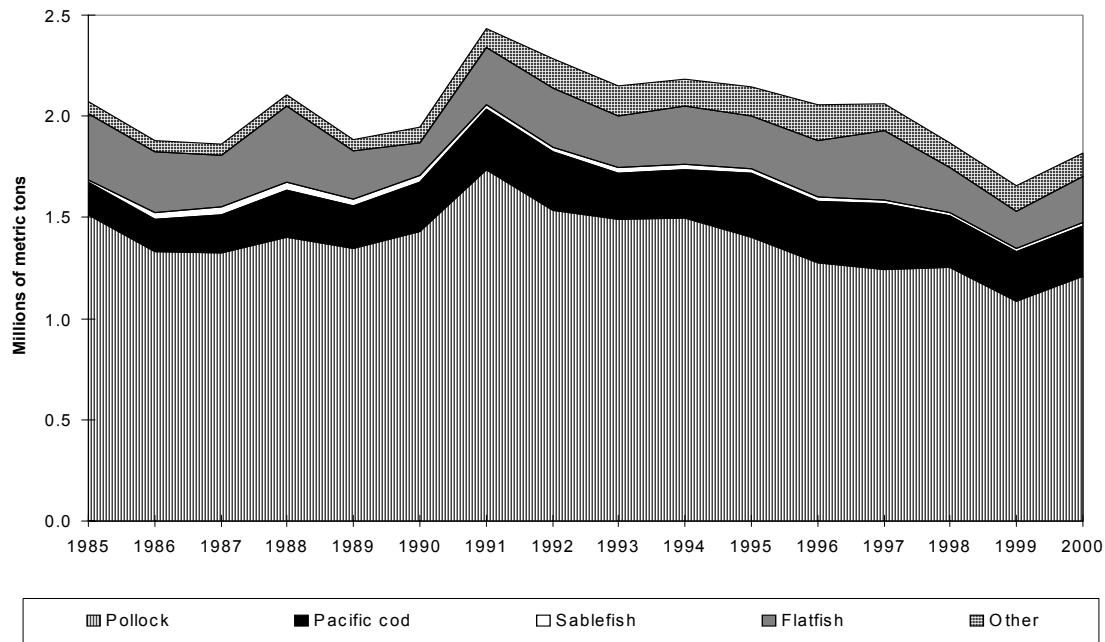
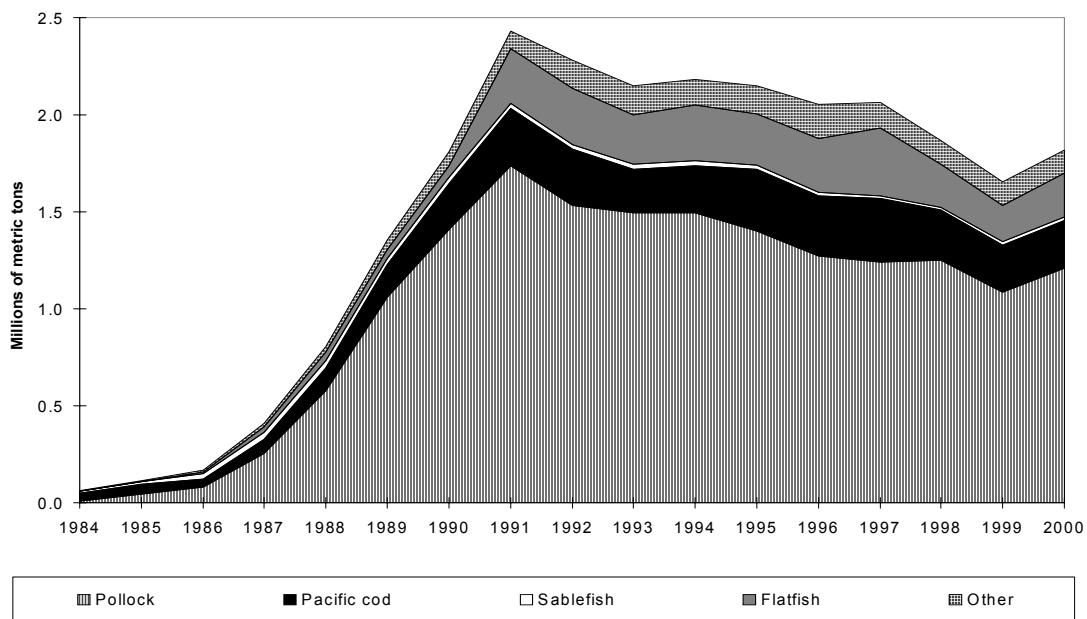


Figure 1. Groundfish catch in the commercial fisheries off Alaska by species, 1985-2000.



Groundfish catch in the domestic commercial fisheries off Alaska by species, 1984-2000.

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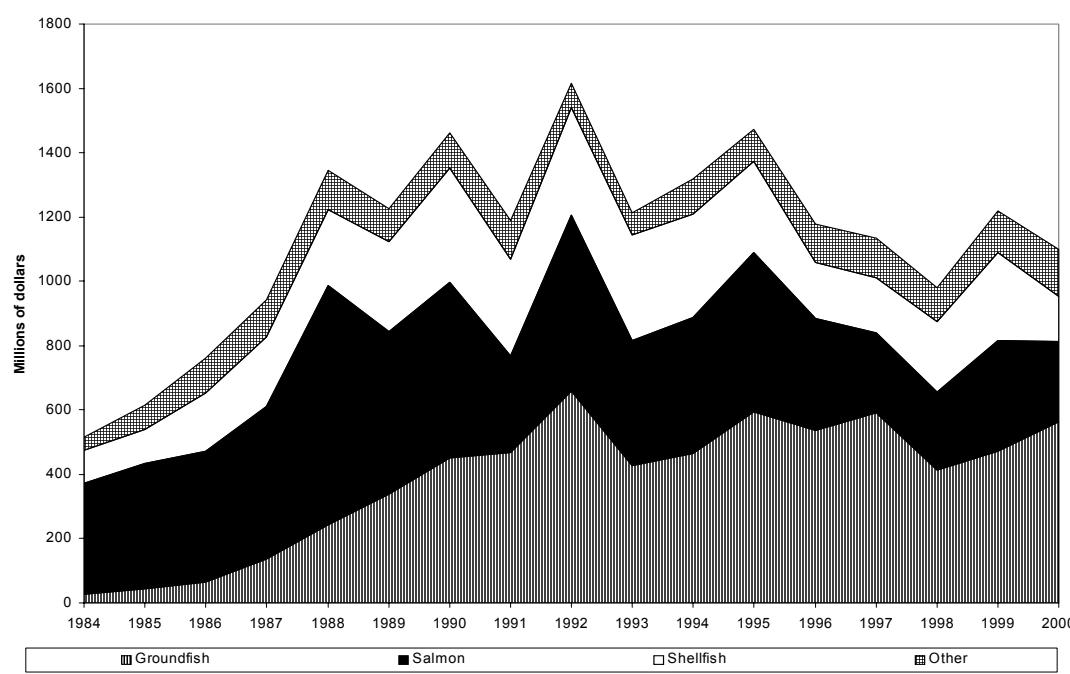
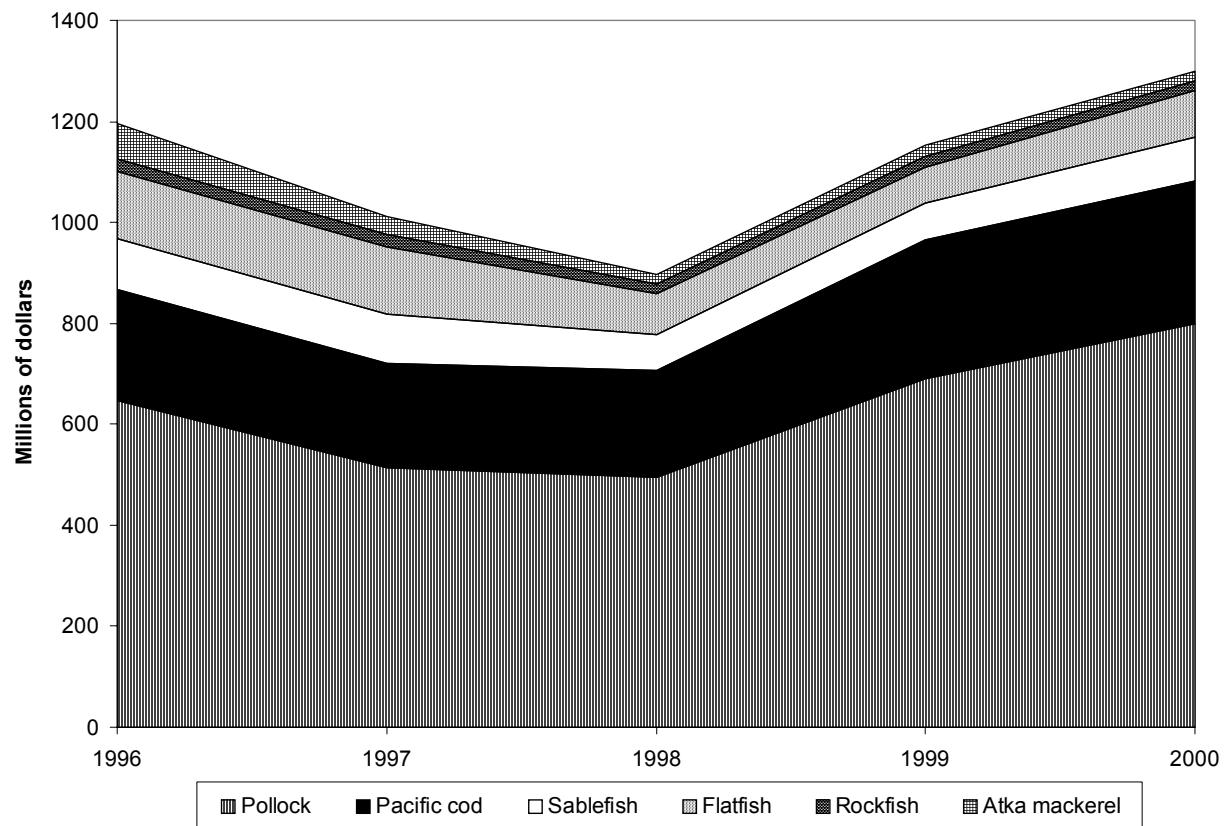


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Figure 5. Gross product value of the groundfish catch off Alaska, 1996-2000.

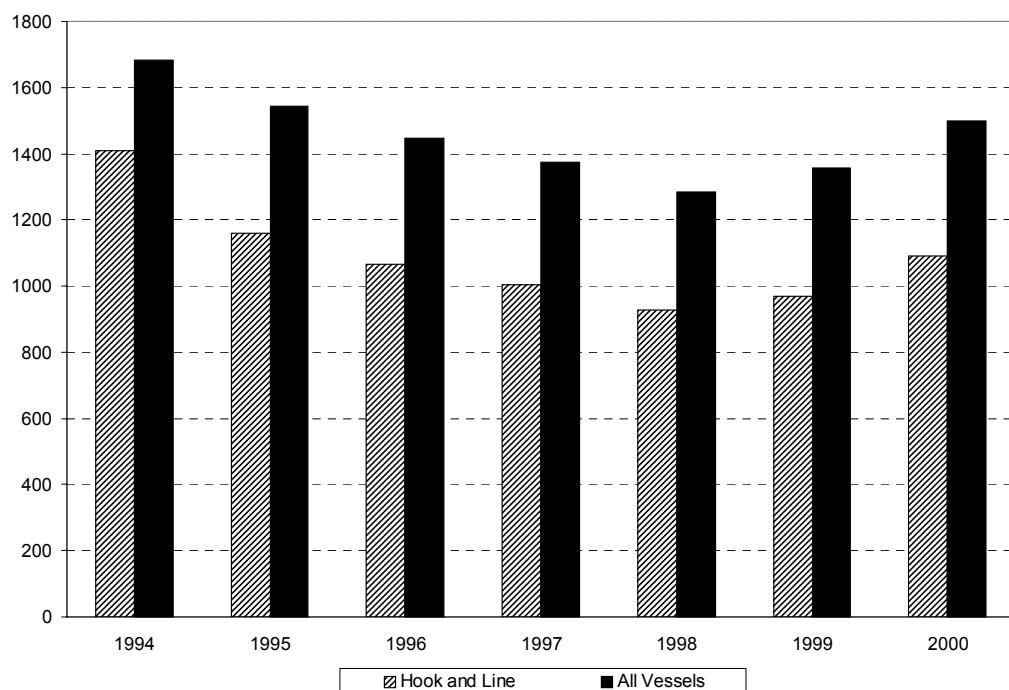
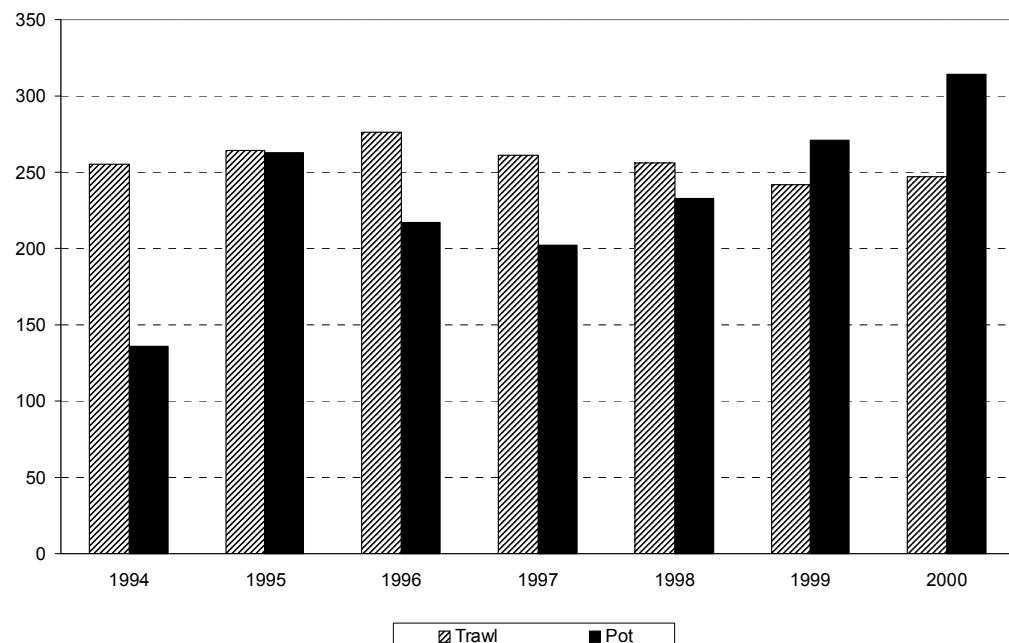


Figure 6.  
Number of vessels in the domestic groundfish fishery off Alaska by gear type, 1994-2000.

Table 1. Groundfish catch in the commercial fisheries off Alaska by area and species, 1985-2000  
(1,000 metric tons, round weight).

	Pollock	Sablefish	Pacific cod	Flatfish	Rockfish	Atka mackerel	Total
<b>Gulf of Alaska</b>							
1985	284.8	11.6	14.3	3.1	3.1	1.8	321.4
1986	84.0	21.9	24.6	2.5	8.0	.0	141.7
1987	62.7	26.5	31.4	9.9	12.8	.0	143.8
1988	55.9	31.0	32.6	8.8	18.4	.1	147.7
1989	66.6	29.8	41.7	5.2	23.4	.2	167.4
1990	77.8	27.3	74.6	15.4	21.1	.1	219.8
1991	107.5	23.1	77.0	40.1	21.2	1.4	276.1
1992	90.9	23.6	80.7	41.9	24.9	6.4	280.7
1993	108.9	24.8	56.5	39.5	19.7	5.1	261.4
1994	107.3	22.5	47.5	36.0	16.1	3.5	235.8
1995	72.6	20.8	69.0	32.3	19.3	.7	218.1
1996	51.3	18.2	68.3	43.1	18.2	1.6	205.2
1997	90.1	15.7	68.5	33.6	19.8	.3	233.5
1998	125.1	15.2	62.1	23.3	19.5	.3	249.3
1999	95.6	13.9	68.6	24.9	24.5	.3	231.6
2000	76.4	15.7	54.5	37.3	21.5	.2	211.1
<b>Bering Sea and Aleutian Islands</b>							
1985	1,228.6	3.8	144.3	320.5	1.5	37.9	1,751.3
1986	1,245.8	6.6	139.3	301.4	1.6	32.0	1,739.4
1987	1,263.6	7.9	157.6	247.3	3.6	30.2	1,719.9
1988	1,349.0	6.6	197.1	369.5	4.7	21.6	1,960.7
1989	1,281.5	4.5	168.4	230.8	7.3	18.3	1,715.9
1990	1,352.9	4.5	171.0	141.8	25.2	22.2	1,723.9
1991	1,629.1	3.4	218.1	240.3	10.6	26.7	2,155.8
1992	1,442.9	2.2	207.3	248.9	17.9	48.5	2,003.0
1993	1,384.6	2.7	167.4	216.9	24.7	66.0	1,887.2
1994	1,388.6	2.4	193.8	253.4	18.7	65.4	1,947.2
1995	1,329.5	2.0	245.0	232.2	16.8	81.6	1,929.8
1996	1,222.3	1.4	240.7	233.7	24.0	103.9	1,848.6
1997	1,150.5	1.3	257.8	311.9	17.0	65.8	1,831.1
1998	1,125.1	1.2	195.8	199.8	15.5	57.1	1,620.9
1999	990.9	1.4	173.9	161.6	19.9	56.2	1,424.9
2000	1,134.0	1.8	191.1	190.9	16.4	47.2	1,607.9
<b>All Alaska</b>							
1985	1,513.4	15.4	158.6	323.6	4.6	39.7	2,072.7
1986	1,329.8	28.5	163.9	303.9	9.6	32.0	1,881.1
1987	1,326.3	34.4	189.0	257.2	16.4	30.2	1,863.7
1988	1,404.9	37.6	229.7	378.3	23.1	21.7	2,108.4
1989	1,348.1	34.3	210.1	236.0	30.7	18.5	1,883.3
1990	1,430.7	31.8	245.6	157.2	46.3	22.3	1,943.7
1991	1,736.6	26.6	295.1	280.4	31.8	28.1	2,431.9
1992	1,533.8	25.7	288.0	290.8	42.8	54.9	2,283.7
1993	1,493.5	27.5	223.9	256.4	44.4	71.2	2,148.6
1994	1,495.9	24.9	241.3	289.4	34.8	68.9	2,183.0
1995	1,402.1	22.9	314.0	264.4	36.1	82.3	2,147.9
1996	1,273.6	19.6	309.0	276.8	42.2	105.5	2,053.8
1997	1,240.7	17.1	326.2	345.6	36.9	66.2	2,064.6
1998	1,250.2	16.4	257.9	223.1	34.9	57.4	1,870.2
1999	1,086.4	15.3	242.5	186.4	44.4	56.5	1,656.5
2000	1,210.3	17.5	245.6	228.2	37.9	47.4	1,819.0

Notes: These estimates include catch from Federal and State of Alaska fisheries.

Totals may include additional categories.

Source: Blend estimates for 1991-2000. Observer and processor reports and fish tickets for 1985-90.  
National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 2. Ex-vessel value of the catch in the domestic commercial fisheries off Alaska by species group, 1984-2000 (\$ millions)

	Shellfish	Salmon	Herring	Halibut	Groundfish	Total
<b>Year</b>						
1984	103.4	343.0	20.4	19.6	27.9	514.3
1985	106.9	389.6	36.9	37.5	43.4	614.3
1986	183.0	404.1	38.4	70.1	66.6	762.2
1987	215.2	473.0	41.7	76.3	137.1	943.3
1988	235.6	744.9	56.0	66.1	242.2	1,344.8
1989	279.2	506.7	18.7	84.4	338.3	1,227.3
1990	355.1	546.7	24.0	86.9	449.5	1,462.2
1991	301.1	300.1	28.6	91.6	467.0	1,188.4
1992	335.1	544.5	27.0	48.0	659.6	1,614.2
1993	328.5	391.1	14.1	53.6	425.5	1,212.8
1994	321.2	424.4	21.6	84.7	465.0	1,316.9
1995	282.9	495.9	39.1	59.5	593.8	1,471.2
1996	175.2	346.5	44.8	74.2	537.9	1,178.6
1997	172.1	247.8	15.9	106.5	592.5	1,134.8
1998	218.7	242.7	10.8	94.1	412.4	978.7
1999	271.2	345.7	14.2	116.9	471.8	1,219.8
2000	142.6	246.6	9.6	134.8	564.9	1,098.5

Note: The value added by at-sea processing is not included in these estimates of ex-vessel value.

Source: Blend estimates, PacFIN prices, ADFG fishtickets, annual processor report, weekly processor reports.

National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 3. Percentage distribution of ex-vessel value of the catch in the domestic commercial fisheries off Alaska by species group, 1984-2000.

Year	Shellfish	Salmon	Herring	Halibut	Groundfish
1984	20.1%	66.7%	4.0%	3.8%	5.4%
1985	17.4%	63.4%	6.0%	6.1%	7.1%
1986	24.0%	53.0%	5.0%	9.2%	8.7%
1987	22.8%	50.1%	4.4%	8.1%	14.5%
1988	17.5%	55.4%	4.2%	4.9%	18.0%
1989	22.7%	41.3%	1.5%	6.9%	27.6%
1990	24.3%	37.4%	1.6%	5.9%	30.7%
1991	25.3%	25.3%	2.4%	7.7%	39.3%
1992	20.8%	33.7%	1.7%	3.0%	40.9%
1993	27.1%	32.2%	1.2%	4.4%	35.1%
1994	24.4%	32.2%	1.6%	6.4%	35.3%
1995	19.2%	33.7%	2.7%	4.0%	40.4%
1996	14.9%	29.4%	3.8%	6.3%	45.6%
1997	15.2%	21.8%	1.4%	9.4%	52.2%
1998	22.3%	24.8%	1.1%	9.6%	42.1%
1999	22.2%	28.3%	1.2%	9.6%	38.7%
2000	13.0%	22.4%	.9%	12.3%	51.4%

Source: Blend estimates, PacFIN prices, ADFG fishtickets, annual processor report, weekly processor reports.  
 National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4. Groundfish catch off Alaska by area, vessel type, gear and species, 1996-2000, (1,000 metric tons, round weight).

	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Catcher vessels	Catcher/ process ors	Total	Catcher vessels	Catcher/ process ors	Total	Catcher vessels	Catcher/ process ors	Total
<b>All gear</b>									
<b>All groundfish</b>									
1996	144	57	201	637	1,212	1,849	781	1,269	2,050
1997	189	39	228	602	1,229	1,831	791	1,268	2,059
1998	207	37	244	548	1,073	1,621	755	1,110	1,865
1999	183	43	226	598	827	1,425	781	870	1,651
2000	162	45	207	683	925	1,608	846	969	1,815
<b>Hook and line</b>									
<b>Sablefish</b>									
1996	12	2	14	1	1	1	13	2	15
1997	10	2	12	1	1	1	11	2	13
1998	10	2	12	1	0	1	11	2	13
1999	9	1	11	0	1	1	9	2	12
2000	11	1	12	1	1	1	11	2	13
<b>Pacific cod</b>									
1996	5	5	10	0	94	95	5	100	105
1997	7	4	11	0	124	124	7	128	135
1998	6	3	10	0	100	100	7	103	110
1999	7	5	12	0	89	89	7	95	101
2000	7	5	12	1	97	98	7	102	109
<b>Flatfish</b>									
1996	0	0	1	1	7	8	2	7	9
1997	0	0	1	2	8	10	2	8	11
1998	1	0	1	1	9	11	2	10	11
1999	1	0	1	1	6	6	2	6	8
2000	1	0	1	0	7	8	2	8	9
<b>Rockfish</b>									
1996	2	0	2	0	0	0	2	1	2
1997	1	0	2	0	0	0	1	1	2
1998	1	0	2	0	1	1	1	1	2
1999	1	0	1	0	0	0	1	1	2
2000	1	0	1	0	1	1	1	1	2
<b>All groundfish</b>									
1996	20	7	27	3	114	116	22	121	144
1997	19	6	26	3	151	154	22	157	180
1998	19	5	25	2	128	130	22	133	155
1999	19	8	27	1	110	112	20	118	138
2000	22	7	29	2	124	126	24	131	156
<b>Pot</b>									
<b>Pacific cod</b>									
1996	12	-	12	24	9	33	36	9	45
1997	9	-	9	17	5	22	26	5	31
1998	-	-	-	10	4	14	-	-	-
1999	14	4	19	12	4	16	27	8	35
2000	16	1	17	16	3	19	32	4	36

Table 4. Continued.

	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Catcher vessels ors	Catcher/ process ors	Total	Catcher vessels ors	Catcher/ process ors	Total	Catcher vessels ors	Catcher/ process ors	Total
<b>Trawl</b>									
Pollock									
1996	48	2	50	532	687	1,219	580	690	1,270
1997	87	1	88	498	648	1,146	585	649	1,234
1998	123	0	123	495	627	1,122	618	627	1,245
1999	93	0	93	544	443	987	637	443	1,080
2000	74	0	75	615	514	1,129	689	515	1,204
Sablefish									
1996	1	1	2	0	0	0	1	1	2
1997	1	1	2	0	0	0	1	1	2
1998	1	1	1	0	0	0	1	1	1
1999	1	1	2	0	0	0	1	1	2
2000	1	1	2	0	0	0	1	1	2
Pacific cod									
1996	40	6	46	53	60	113	93	66	159
1997	46	2	48	50	61	111	97	63	160
1998	36	5	41	33	49	82	69	55	123
1999	35	2	37	29	39	68	64	41	105
2000	23	2	25	40	34	74	63	37	100
Flatfish									
1996	17	25	42	20	205	225	37	230	268
1997	19	14	33	30	272	302	49	286	335
1998	10	12	22	6	183	189	16	195	211
1999	11	12	23	8	147	155	20	159	179
2000	15	21	36	7	175	183	22	197	219
Rockfish									
1996	4	12	16	0	23	23	5	35	40
1997	5	13	18	0	16	17	5	29	34
1998	5	12	17	1	14	15	6	26	32
1999	8	14	23	0	19	19	8	34	42
2000	9	10	19	0	16	16	9	26	35
Atka mackerel									
1996	0	1	2	0	104	104	0	105	105
1997	0	0	0	0	66	66	0	66	66
1998	0	0	0	0	57	57	0	57	57
1999	0	0	0	0	56	56	0	56	56
2000	0	0	0	0	47	47	0	47	47
All groundfish									
1996	112	50	162	609	1,089	1,699	721	1,139	1,860
1997	161	33	193	581	1,073	1,654	742	1,105	1,847
1998	177	32	208	535	941	1,476	712	972	1,685
1999	150	31	180	583	713	1,296	733	743	1,477
2000	124	36	160	663	798	1,461	787	834	1,621

Note: The estimates are of total catch (i.e., retained and discarded catch). All groundfish include additional species categories. These estimates include only catches counted against Federal TACs. A dash (-) indicates that data are not available, either because there was no activity or to preserve confidentiality.

Source: Blend estimates, National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 5. Discards and discard rates for groundfish catch off Alaska by area, gear, and species, 1996-2000 (1,000 metric tons, round weight).

Area/Species/Year	Fixed		Trawl		All gear	
	Total Discards	Discard Rate	Total Discards	Discard Rate	Total Discards	Discard Rate
Gulf of Alaska						
All groundfish						
1996	2.7	6.7%	38.3	23.7%	41.0	20.3%
1997	3.1	8.7%	34.4	17.6%	37.5	16.2%
1998	3.5	9.5%	18.8	9.0%	22.3	9.1%
1999	4.2	9.0%	20.6	11.4%	24.8	10.9%
2000	5.5	11.5%	22.0	13.7%	27.5	13.2%
Pollock						
1996	.0	71.3%	5.1	10.1%	5.1	10.2%
1997	.0	42.5%	7.2	8.0%	7.2	8.0%
1998	.0	10.7%	1.0	.8%	1.0	.8%
1999	.1	68.5%	1.8	1.9%	1.9	2.0%
2000	.3	78.1%	1.9	2.6%	2.2	2.9%
Sablefish						
1996	.3	2.2%	.5	26.1%	.8	5.2%
1997	.5	4.2%	.5	30.7%	1.0	7.3%
1998	.5	4.7%	.3	23.7%	.9	6.7%
1999	.3	2.6%	.7	42.2%	1.0	8.0%
2000	.5	4.2%	.6	35.9%	1.1	8.2%
Pacific cod						
1996	.5	2.0%	7.1	15.4%	7.6	11.1%
1997	.7	3.5%	4.1	8.5%	4.8	7.1%
1998	.4	1.8%	1.4	3.3%	1.7	2.8%
1999	.6	1.9%	1.0	2.8%	1.6	2.4%
2000	.1	.5%	1.2	4.9%	1.4	2.5%
Flatfish						
1996	.7	96.8%	19.4	45.6%	20.0	46.4%
1997	.7	98.9%	15.9	48.5%	16.6	49.5%
1998	.8	90.2%	11.4	50.8%	12.2	52.2%
1999	1.4	97.9%	11.9	50.7%	13.3	53.5%
2000	1.4	95.2%	14.0	39.0%	15.3	41.1%
Rockfish						
1996	.3	15.3%	3.3	20.4%	3.6	19.8%
1997	.3	15.2%	3.5	19.6%	3.8	19.2%
1998	.5	24.8%	2.7	15.7%	3.2	16.6%
1999	.2	16.1%	3.4	15.1%	3.7	15.1%
2000	.4	21.8%	2.1	11.1%	2.5	12.1%
Atka mackerel						
1996	.0	100.0%	.3	21.1%	.3	21.1%
1997	.0	96.9%	.1	16.2%	.1	16.6%
1998	.0	100.0%	.2	51.9%	.2	51.9%
1999	.0	21.2%	.0	13.0%	.0	13.0%
2000	.0	100.0%	.0	5.0%	.0	6.1%

Table 5. Continued.

Area/Species/Year	Fixed		Trawl		All gear	
	Total Discards	Discard Rate	Total Discards	Discard Rate	Total Discards	Discard Rate
<b>Bering Sea and Aleutian Islands</b>						
<b>All groundfish</b>						
1996	19.5	13.0%	224.0	13.2%	243.5	13.2%
1997	25.1	14.2%	235.8	14.3%	261.0	14.3%
1998	21.7	15.0%	109.4	7.4%	131.0	8.1%
1999	15.1	11.7%	114.9	8.9%	130.0	9.1%
2000	20.4	13.9%	107.7	7.4%	128.1	8.0%
<b>Pollock</b>						
1996	2.6	90.2%	74.6	6.1%	77.2	6.3%
1997	3.8	82.1%	90.5	7.9%	94.2	8.2%
1998	.7	21.7%	16.2	1.4%	16.9	1.5%
1999	.6	15.0%	28.9	2.9%	29.5	3.0%
2000	1.0	21.1%	21.4	1.9%	22.4	2.0%
<b>Sablefish</b>						
1996	.1	10.0%	.0	17.6%	.2	10.9%
1997	.1	11.2%	.0	16.8%	.2	11.5%
1998	.1	11.4%	.0	11.0%	.1	11.4%
1999	.1	10.3%	.0	15.9%	.2	11.6%
2000	.1	7.5%	.1	17.1%	.2	9.2%
<b>Pacific cod</b>						
1996	3.9	3.0%	24.9	22.1%	28.8	12.0%
1997	4.0	2.7%	18.0	16.2%	21.9	8.5%
1998	3.1	2.8%	1.1	1.4%	4.2	2.2%
1999	1.6	1.5%	2.0	2.9%	3.6	2.1%
2000	2.9	2.5%	1.1	1.4%	4.0	2.1%
<b>Flatfish</b>						
1996	4.6	54.7%	87.1	38.6%	91.7	39.2%
1997	5.0	50.5%	104.7	34.7%	109.8	35.2%
1998	3.7	34.6%	71.0	37.5%	74.7	37.4%
1999	2.5	38.9%	62.9	40.6%	65.4	40.5%
2000	3.2	40.7%	66.0	36.1%	69.2	36.3%
<b>Rockfish</b>						
1996	.2	45.1%	8.0	34.3%	8.3	34.5%
1997	.2	47.0%	4.4	26.4%	4.6	26.9%
1998	.4	57.6%	4.7	32.1%	5.1	33.2%
1999	.3	56.5%	6.9	35.6%	7.2	36.1%
2000	.4	60.9%	5.7	36.0%	6.1	37.1%
<b>Atka mackerel</b>						
1996	.1	98.2%	17.1	16.4%	17.2	16.5%
1997	.1	97.6%	6.5	9.9%	6.6	10.0%
1998	.1	95.3%	5.6	9.8%	5.7	9.9%
1999	.1	94.8%	5.0	8.8%	5.0	8.9%
2000	.2	97.2%	2.6	5.6%	2.8	5.9%

Table 5. Continued.

	Fixed		Trawl		All gear	
	Total Discards	Discard Rate	Total Discards	Discard Rate	Total Discards	Discard Rate
Area/Species/Year						
All Alaska						
All groundfish						
1996	22.2	11.7%	262.3	14.1%	284.5	13.9%
1997	28.3	13.3%	270.2	14.6%	298.5	14.5%
1998	25.1	13.9%	128.2	7.6%	153.4	8.2%
1999	19.3	11.0%	135.4	9.2%	154.8	9.4%
2000	25.9	13.3%	129.6	8.0%	155.6	8.6%
Pollock						
1996	2.7	89.7%	79.6	6.3%	82.3	6.5%
1997	3.8	81.4%	97.7	7.9%	101.5	8.2%
1998	.7	21.5%	17.2	1.4%	17.9	1.4%
1999	.7	17.0%	30.7	2.8%	31.4	2.9%
2000	1.3	24.9%	23.3	1.9%	24.6	2.0%
Sablefish						
1996	.4	2.8%	.6	25.4%	1.0	5.7%
1997	.6	4.9%	.5	30.0%	1.1	7.7%
1998	.7	5.3%	.3	22.4%	1.0	7.1%
1999	.4	3.3%	.8	38.2%	1.1	8.4%
2000	.6	4.6%	.7	32.9%	1.3	8.3%
Pacific cod						
1996	4.3	2.9%	32.0	20.1%	36.4	11.8%
1997	4.7	2.8%	22.1	13.8%	26.8	8.2%
1998	3.5	2.6%	2.5	2.0%	6.0	2.3%
1999	2.2	1.6%	3.0	2.9%	5.2	2.2%
2000	3.0	2.1%	2.3	2.3%	5.3	2.2%
Flatfish						
1996	5.2	57.9%	106.5	39.7%	111.7	40.3%
1997	5.7	53.7%	120.7	36.0%	126.4	36.6%
1998	4.5	38.7%	82.3	38.9%	86.8	38.9%
1999	3.9	49.9%	74.8	41.9%	78.7	42.2%
2000	4.6	49.1%	80.0	36.5%	84.5	37.1%
Rockfish						
1996	.5	20.9%	11.3	28.6%	11.9	28.2%
1997	.5	21.0%	7.9	22.9%	8.4	22.8%
1998	.9	33.4%	7.4	23.3%	8.3	24.0%
1999	.5	25.5%	10.4	24.6%	10.9	24.6%
2000	.8	32.5%	7.8	22.3%	8.6	23.0%
Atka mackerel						
1996	.1	98.2%	17.4	16.5%	17.5	16.6%
1997	.1	97.6%	6.5	9.9%	6.6	10.0%
1998	.1	95.3%	5.7	10.0%	5.8	10.2%
1999	.1	93.7%	5.0	8.8%	5.1	9.0%
2000	.2	97.2%	2.6	5.6%	2.8	5.9%

Table 5. Continued.

Notes: All groundfish and all gear may include additional categories. These estimates include only catch counted against Federal TACs. Although these are the best available estimates of discards and are used for several management purposes, these estimates are not necessarily accurate. The reasons for this are as follows: 1) they are wholly or partially derived from observer estimates; 2) discards occur at many different places on vessels; 3) observers record only a rough approximation of what they see; 4) the estimation methods used by at-sea observers focus on providing good estimates of total catch by species, not on the disposition of that catch.

Source: Blend estimates, National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0700.

Table 6. Gulf of Alaska groundfish catch by species, gear, and target fishery, 1999-2000 (1,000 metric tons, round weight).

	Species											
	Pollock	Sable-fish	Pacific cod	Arrowtooth	Flathd. sole	Rex sole	Flat deep	Flat shallow	Rock-fish	Atka mack.	Other	Total
<b>Year/Gear/Target</b>												
<b>1999</b>												
<b>Hook and line</b>												
Sablefish	.0	10.5	.3	.7	-	-	.0	.0	.9	-	.3	12.8
Pacific cod	.1	.0	11.7	.5	.0	-	.0	.0	.1	.0	1.0	13.5
Rockfish	.0	.0	.0	.0	-	-	.0	-	.3	-	.0	.4
<b>Total</b>	<b>.1</b>	<b>10.5</b>	<b>12.0</b>	<b>1.2</b>	<b>.0</b>	<b>-</b>	<b>.0</b>	<b>.1</b>	<b>1.2</b>	<b>.0</b>	<b>1.4</b>	<b>26.7</b>
<b>Pot</b>												
Pacific cod	.0	.0	18.7	.0	.0	.0	.0	.0	.0	.0	.2	19.0
<b>Total</b>	<b>.0</b>	<b>.0</b>	<b>18.7</b>	<b>.0</b>	<b>.0</b>	<b>.0</b>	<b>.0</b>	<b>.0</b>	<b>.0</b>	<b>.0</b>	<b>.3</b>	<b>19.0</b>
<b>Trawl</b>												
<b>Pollock</b>												
bottom	3.5	.0	.4	.3	.0	.0	.0	.0	.0	-	.1	4.4
pelagic	88.2	.0	.4	.7	.1	.0	.0	.0	.0	.1	.3	89.9
Pacific cod	1.0	.2	33.5	3.4	.3	.3	.2	1.4	.4	.0	.6	41.1
Arrowtooth	.1	.2	.3	2.9	.1	.3	.2	.0	.3	.0	.1	4.5
Rex sole	.1	.1	.6	3.7	.2	2.2	.1	.0	.3	.0	.5	7.9
Flat deep	.1	.2	.3	1.1	.0	.1	1.4	.1	.4	-	.1	3.7
Flat shallow	.1	.0	.3	.1	.0	.0	.0	.9	.0	-	.1	1.4
Rockfish	.1	1.0	1.3	2.4	.1	.2	.1	.1	21.2	.1	.2	26.8
<b>Total</b>	<b>93.2</b>	<b>1.7</b>	<b>37.1</b>	<b>14.7</b>	<b>.9</b>	<b>3.1</b>	<b>2.3</b>	<b>2.5</b>	<b>22.7</b>	<b>.3</b>	<b>2.1</b>	<b>180.5</b>
<b>All gear</b>												
<b>Total</b>	<b>93.4</b>	<b>12.2</b>	<b>67.9</b>	<b>16.0</b>	<b>.9</b>	<b>3.1</b>	<b>2.3</b>	<b>2.5</b>	<b>23.9</b>	<b>.3</b>	<b>3.7</b>	<b>226.2</b>

Table 6. Continued.

	Species											
	Pollock	Sable-fish	Pacific cod	Arrowtooth	Flathd. sole	Rex sole	Flat deep	Flat shallow	Rock-fish	Atka mack.	Other	Total
<b>Year/Gear/Target</b>												
<b>2000</b>												
<b>Hook and line</b>												
Sablefish	.0	11.9	.1	.8	.0	-	.0	.0	1.1	-	.5	14.6
Pacific cod	.3	.1	11.4	.4	.0	-	.0	.0	.0	-	1.8	14.0
Rockfish	.0	.1	.0	.0	-	-	.0	.0	.3	-	.1	.6
<b>Total</b>	<b>.3</b>	<b>12.1</b>	<b>11.5</b>	<b>1.3</b>	<b>.0</b>	<b>-</b>	<b>.1</b>	<b>.0</b>	<b>1.5</b>	<b>-</b>	<b>2.4</b>	<b>29.2</b>
<b>Pot</b>												
Pacific cod	.0	.0	17.3	.0	.0	-	.0	.0	.0	.0	.4	17.6
<b>Total</b>	<b>.0</b>	<b>.0</b>	<b>17.3</b>	<b>.0</b>	<b>.0</b>	<b>.0</b>	<b>.0</b>	<b>.0</b>	<b>.0</b>	<b>.0</b>	<b>.4</b>	<b>17.8</b>
<b>Trawl</b>												
<b>Pollock</b>												
bottom	9.2	.0	.6	.4	.1	.0	.0	.1	.1	-	.2	10.7
pelagic	63.2	.0	.2	.6	.1	.0	.0	.0	.0	.0	.4	64.4
Pacific cod	1.5	.0	19.9	1.3	.2	.1	.0	1.0	.1	.0	.4	24.4
Arrowtooth	.2	.4	1.1	11.9	.4	1.2	.1	.6	.6	.0	.5	17.2
Flathd. sole	.0	.0	.0	.1	.0	.0	.0	.0	.0	-	.0	.2
Rex sole	.2	.1	.5	4.3	.3	2.1	.1	.0	.4	.0	.3	8.3
Flat deep	.0	.0	.1	.1	.0	.0	.4	.1	.1	-	.0	1.0
Flat shallow	.4	.1	1.5	1.8	.4	.0	.1	4.7	.1	-	.5	9.8
Rockfish	.2	1.0	1.5	2.5	.1	.1	.2	.4	17.7	.2	.2	23.8
<b>Total</b>	<b>74.8</b>	<b>1.7</b>	<b>25.4</b>	<b>22.9</b>	<b>1.5</b>	<b>3.6</b>	<b>.9</b>	<b>6.9</b>	<b>19.2</b>	<b>.2</b>	<b>2.7</b>	<b>159.9</b>
<b>All gear</b>												
<b>Total</b>	<b>75.1</b>	<b>13.8</b>	<b>54.3</b>	<b>24.2</b>	<b>1.5</b>	<b>3.6</b>	<b>1.0</b>	<b>6.9</b>	<b>20.7</b>	<b>.2</b>	<b>5.5</b>	<b>206.9</b>

Notes: Totals may include additional categories. The target, calculated by AFSC staff, is based on processor, week, processing mode, NMFS area, and gear. These estimates include only catch counted against Federal TACs.

Source: Blend estimates, National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 7. Bering Sea and Aleutian Islands groundfish catch by species, gear, and target fishery, 1999-2000 (1,000 metric tons, round weight).

	Species												
	Pollock	Sable-fish	Pacific cod	Arrowtooth	Flathd. sole	Rock sole	Turbot	Yellow fin	Flat other	Rock-fish	Atka mack.	Other	Total
<b>Year/Gear/Target</b>													
<b>1999</b>													
<b>Hook and line</b>													
Sablefish	.0	.7	.1	.3	.0	.0	.3	-	.0	.1	-	.1	1.5
Pacific cod	3.9	.0	89.2	.8	.3	.0	.2	.2	.1	.2	.1	10.0	105.1
Turbot	.0	.3	.1	.4	.0	.0	3.5	-	.0	.1	-	.4	4.9
Total	3.9	1.0	89.4	1.6	.3	.1	4.0	.2	.1	.5	.1	10.5	111.7
<b>Pot</b>													
Pacific cod	.0	.0	16.1	.0	.0	.0	.0	.1	.0	.0	.0	.7	17.0
Total	.0	.0	16.1	.0	.0	.0	.0	.1	.0	.0	.0	.7	17.1
<b>Trawl</b>													
<b>Pollock</b>													
bottom	11.0	.0	.4	.1	.4	.7	.0	.5	.2	.1	.1	.1	13.5
pelagic	940.3	.0	3.1	.2	1.6	.7	.0	.1	.5	.1	.0	.6	947.4
Pacific cod	16.9	.0	51.0	1.1	2.0	9.6	.0	.4	.5	.3	.5	2.1	84.4
Arrowtooth	.2	.0	.1	.8	.1	.0	.2	.0	.1	.1	.0	.1	1.6
Flathd. sole	3.6	.0	3.2	3.6	11.2	2.6	.4	3.6	1.5	.0	.0	2.2	32.0
Rock sole	5.6	.0	3.6	.1	.7	18.0	.0	3.3	1.1	.0	.0	.7	33.0
Turbot	.1	.1	.1	.5	.1	.0	.7	.0	.1	.0	.1	.0	1.9
Yellowfin	8.1	.0	4.0	1.5	2.0	9.2	.1	61.1	10.9	.0	.0	2.3	99.2
Flat, other	.3	.0	.1	1.1	.2	.1	.2	.1	.4	.1	.0	.2	2.8
Rockfish	.4	.0	.1	.2	.0	.0	.0	-	.0	12.1	.5	.1	13.5
Atka mack.	.4	.0	2.6	.5	.1	.1	.1	.0	.0	6.7	54.8	.5	65.9
Oth. & unk.	-	-	-	-	-	-	-	-	-	-	-	.8	.8
Total	986.9	.3	68.3	9.8	18.3	41.0	1.8	69.0	15.3	19.5	56.2	9.7	1,296.1
<b>All gear</b>													
Total	990.9	1.4	173.9	11.4	18.6	41.1	5.9	69.3	15.4	19.9	56.2	21.0	1,424.9

Table 7. Continued.

	Species												
	Pollock	Sable-fish	Pacific cod	Arrowtooth	Flathd. sole	Rock sole	Turbot	Yellow fin	Flat other	Rock-fish	Atka mack.	Other	Total
<b>Year/Gear/Target</b>													
<b>2000</b>													
Hook and line													
Sablefish	.0	.9	.1	.2	.0	.0	.4	-	.0	.2	.0	.3	2.1
Pacific cod	4.8	.1	97.6	1.3	.3	.0	.2	.3	.1	.3	.2	13.2	118.4
Turbot	.0	.3	.2	.5	.0	.0	4.4	-	.0	.1	.0	.3	5.7
Total	4.8	1.3	97.9	2.0	.3	.0	5.0	.3	.1	.7	.2	13.8	126.4
Pot													
Sablefish	.0	.1	.0	.0	-	.0	.0	-	.0	.0	.0	.0	.2
Pacific cod	.1	-	19.0	.0	.0	.0	.0	.1	.0	.0	.0	.8	19.9
Total	.1	.1	19.0	.0	.0	.0	.0	.1	.0	.0	.0	.8	20.1
Trawl													
Pollock													
bottom	25.0	.0	.4	.1	.4	1.2	.0	.9	.2	.1	.0	.2	28.5
pelagic	1,067.3	.0	3.1	.9	2.2	1.5	.0	.7	.3	.0	.0	.5	1,076.6
Pacific cod	9.9	.0	54.4	.9	1.8	7.1	.1	1.1	.8	.6	.3	2.2	79.1
Arrowtooth	.2	.1	.1	1.5	.1	.0	.3	.1	.1	.1	.0	.2	2.7
Flathd. sole	5.6	.1	3.6	3.6	10.4	1.8	.6	5.0	1.6	.2	.0	2.6	35.1
Rock sole	6.4	.0	5.0	.2	2.0	31.3	.0	4.2	2.1	.0	.0	1.3	52.8
Turbot	.1	.1	.0	.3	.1	.0	.7	.0	.1	.1	.0	.1	1.6
Yellowfin	13.5	.0	5.0	2.0	2.8	6.6	.0	71.4	10.3	.0	.0	3.5	115.1
Flat, other	.3	.0	.3	1.0	.2	.1	.1	.4	.7	.1	.0	.2	3.2
Rockfish	.3	.0	.1	.4	.0	.0	.0	-	.0	8.5	.2	.1	9.7
Atka mack.	.2	.0	2.1	.3	.0	.0	.2	.0	.0	6.1	46.5	.4	55.8
Oth. & unk.	-	-	-	-	-	-	-	-	-	-	-	.8	.8
Total	1,128.8	.3	74.2	11.2	20.1	49.6	1.9	83.7	16.4	15.7	47.1	11.9	1,460.9
All gear													
Total	1,134.0	1.8	191.0	13.2	20.4	49.7	7.0	84.1	16.5	16.4	47.2	26.5	1,607.8

Notes: Totals may include additional categories. The target, calculated by AFSC staff, is based on processor, week, processing mode, NMFS area, and gear. These estimates include only catch counted against Federal TACs.

Source: Blend estimates, National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 8. Gulf of Alaska groundfish discards by species, gear, and target fishery, 1999-2000 (1,000 metric tons, round weight).

	Species											
	Pollock	Sable-fish	Pacific cod	Arrowtooth	Flathd. sole	Rex sole	Flat deep	Flat shallow	Rock-fish	Atka mack.	Other	Total
<b>Year/Gear/Target</b>												
<b>1999</b>												
<b>Hook and line</b>												
Sablefish	.0	.3	.2	.7	-	-	.0	.0	.2	-	.3	1.7
Pacific cod	.1	.0	.1	.5	.0	-	.0	.0	.0	.0	1.0	1.9
Rockfish	.0	.0	.0	.0	-	-	.0	-	.0	-	.0	.0
<b>Total</b>	<b>.1</b>	<b>.3</b>	<b>.3</b>	<b>1.2</b>	<b>.0</b>	<b>-</b>	<b>.0</b>	<b>.1</b>	<b>.2</b>	<b>.0</b>	<b>1.4</b>	<b>3.6</b>
<b>Pot</b>												
Pacific cod	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.1	.4
<b>Total</b>	<b>.0</b>	<b>.0</b>	<b>.3</b>	<b>.0</b>	<b>.0</b>	<b>.0</b>	<b>.0</b>	<b>.0</b>	<b>.0</b>	<b>.0</b>	<b>.1</b>	<b>.4</b>
<b>Trawl</b>												
<b>Pollock</b>												
bottom	.2	.0	.0	.2	.0	.0	.0	.0	.0	-	.1	.5
pelagic	.9	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	1.3
Pacific cod	.4	.1	.4	3.2	.1	.0	.1	.3	.4	.0	.5	5.6
Arrowtooth	.1	.1	.0	.9	.0	.0	.0	.0	.2	.0	.1	1.4
Rex sole	.0	.0	.1	3.5	.1	.0	.1	.0	.3	.0	.5	4.6
Flat deep	.1	.1	.1	.9	.0	.0	.0	.0	.2	-	.0	1.4
Flat shallow	.0	.0	.1	.0	.0	.0	.0	.1	.0	-	.1	.4
Rockfish	.1	.3	.2	1.6	.0	.1	.1	.0	2.4	.0	.2	4.9
<b>Total</b>	<b>1.8</b>	<b>.7</b>	<b>1.0</b>	<b>10.5</b>	<b>.3</b>	<b>.1</b>	<b>.4</b>	<b>.5</b>	<b>3.4</b>	<b>.0</b>	<b>1.7</b>	<b>20.6</b>
<b>All gear</b>												
<b>Total</b>	<b>1.9</b>	<b>1.0</b>	<b>1.6</b>	<b>11.7</b>	<b>.3</b>	<b>.1</b>	<b>.5</b>	<b>.6</b>	<b>3.7</b>	<b>.0</b>	<b>3.2</b>	<b>24.6</b>

Table 8. Continued.

	Species											
	Pollock	Sable-fish	Pacific cod	Arrowtooth	Flathd. sole	Rex sole	Flat deep	Flat shallow	Rock-fish	Atka mack.	Other	Total
<b>Year/Gear/Target</b>												
2000												
Hook and line												
Sablefish	.0	.4	.0	.8	.0	-	.0	.0	.4	-	.5	2.1
Pacific cod	.3	.0	.1	.4	.0	-	.0	.0	.0	-	1.8	2.6
Rockfish	.0	.1	.0	.0	-	-	.0	.0	.0	-	.1	.2
Total	.3	.5	.1	1.2	.0	-	.1	.0	.4	-	2.4	5.0
Pot												
Pacific cod	.0	.0	.0	.0	.0	-	.0	.0	.0	.0	.3	.4
Total	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.4
Trawl												
Pollock												
bottom	.1	.0	.0	.1	.0	.0	.0	.0	.0	-	.2	.6
pelagic	.5	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	.8
Pacific cod	1.0	.0	.0	1.1	.1	.0	.0	.5	.1	.0	.4	3.2
Arrowtooth	.1	.3	.2	4.3	.0	.0	.0	.1	.4	.0	.4	5.8
Flathd. sole	.0	.0	.0	.0	.0	.0	.0	.0	.0	-	.0	.1
Rex sole	.1	.1	.1	3.9	.1	.0	.1	.0	.3	.0	.3	5.1
Flat deep	.0	.0	.1	.1	.0	.0	.0	.0	.0	-	.0	.3
Flat shallow	.1	.0	.5	1.2	.0	.0	.0	.1	.0	-	.3	2.3
Rockfish	.1	.2	.3	1.8	.0	.0	.1	.0	1.2	.0	.2	3.8
Total	1.9	.6	1.2	12.6	.2	.1	.2	.8	2.1	.0	2.1	22.0
All gear												
Total	2.2	1.1	1.4	13.9	.2	.1	.3	.8	2.5	.0	4.8	27.3

Notes: Totals may include additional categories. The target, calculated by AFSC staff, is based on processor, week, processing mode, NMFS area, and gear. These estimates include only catch counted against Federal TACs. Although these are the best available estimates of discards and are used for several management purposes, these estimates are not necessarily accurate. The reasons for this are as follows: 1) they are wholly or partially derived from observer estimates; 2) discards occur at many different places on vessels; 3) observers record only a rough approximation of what they see; and 4) the estimation methods used by at-sea observers focus on providing good estimates of total catch by species, not on the disposition of that catch.

Source: Blend estimates, National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 9. Bering Sea and Aleutian Islands groundfish discards by species, gear, and target fishery, 1999-2000 (1,000 metric tons, round weight).

	Species												
	Pollock	Sable-fish	Pacific cod	Arrowtooth	Flathd. sole	Rock sole	Turbot	Yellow fin	Flat other	Rock-fish	Atka mack.	Other	Total
<b>Year/Gear/Target</b>													
1999													
Hook and line													
Sablefish	.0	.0	.1	.3	.0	.0	.1	-	.0	.0	-	.1	.6
Pacific cod	.6	.0	1.4	.7	.3	.0	.0	.2	.1	.2	.1	8.8	12.4
Arrowtooth	-	.0	-	.0	-	-	-	-	.0	.0	-	.0	.0
Turbot	.0	.1	.0	.4	.0	.0	.2	-	.0	.0	-	.4	1.1
Total	.6	.1	1.5	1.5	.3	.1	.3	.2	.1	.3	.1	9.3	14.2
Pot													
Pacific cod	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.7	.9
Total	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.7	.9
Trawl													
Pollock													
bottom	1.4	.0	.0	.1	.2	.5	.0	.1	.2	.0	.1	.1	2.6
pelagic	5.6	.0	.2	.2	1.1	.5	.0	.1	.0	.0	.0	.3	8.0
Pacific cod	12.9	.0	.6	.9	1.0	8.0	.0	.3	.4	.3	.5	2.1	27.1
Arrowtooth	.1	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0	.1	.5
Flathd. sole	2.0	.0	.4	3.2	1.4	1.9	.1	2.0	1.3	.0	.0	2.2	14.6
Rock sole	3.6	.0	.1	.1	.3	8.1	.0	1.2	1.1	.0	.0	.7	15.1
Turbot	.1	.0	.0	.4	.0	.0	.1	.0	.0	.0	.0	.0	.7
Yellowfin	2.8	.0	.5	.7	.4	6.4	.0	8.5	10.0	.0	.0	2.2	31.5
Flat, other	.2	.0	.0	1.0	.0	.1	.1	.0	.0	.0	.0	.2	1.8
Rockfish	.1	.0	.0	.1	.0	.0	.0	-	.0	.7	.1	.1	1.0
Atka mack.	.2	.0	.1	.3	.0	.1	.0	.0	.0	5.8	4.3	.5	11.3
Oth. & unk.	-	-	-	-	-	-	-	-	-	-	-	.6	.6
Total	28.9	.0	2.0	7.2	4.5	25.6	.4	12.2	13.0	6.9	5.0	9.1	114.9
All gear													
Total	29.5	.2	3.6	8.7	4.8	25.6	.7	12.5	13.1	7.2	5.0	19.1	130.0

Table 9. Continued.

	Species												
	Pollock	Sable-fish	Pacific cod	Arrowtooth	Flathd. sole	Rock sole	Turbot	Yellow fin	Flat other	Rock-fish	Atka mack.	Other	Total
<b>Year/Gear/Target</b>													
<b>2000</b>													
<b>Hook and line</b>													
Sablefish	.0	.0	.0	.2	.0	.0	.2	-	.0	.1	.0	.2	.8
Pacific cod	1.0	.1	2.7	1.2	.3	.0	.1	.3	.1	.3	.1	11.2	17.5
Turbot	.0	.0	.0	.5	.0	.0	.2	-	.0	.1	.0	.3	1.1
Total	1.0	.1	2.8	1.9	.3	.0	.5	.3	.1	.4	.1	11.8	19.4
<b>Pot</b>													
Sablefish	.0	.0	.0	.0	-	.0	.0	-	.0	.0	.0	.0	.0
Pacific cod	.0	-	.1	.0	.0	.0	.0	.1	.0	.0	.0	.8	1.0
Total	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.8	1.0
<b>Trawl</b>													
<b>Pollock</b>													
bottom	.2	.0	.0	.1	.2	1.0	.0	.5	.2	.0	.0	.1	2.3
pelagic	1.6	.0	.1	.4	1.1	1.0	.0	.4	.0	.0	.0	.3	5.0
Pacific cod	6.7	.0	.3	.7	1.1	5.5	.0	.9	.7	.5	.2	2.2	19.0
Arrowtooth	.1	.0	.0	.5	.0	.0	.1	.1	.0	.0	.0	.2	1.0
Flathd. sole	3.6	.0	.1	2.3	1.3	1.1	.1	1.4	1.1	.1	.0	2.2	13.4
Rock sole	3.0	.0	.2	.2	.8	15.0	.0	.7	1.9	.0	.0	1.3	23.1
Turbot	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
Yellowfin	5.8	.0	.3	.9	.6	3.6	.0	9.7	9.3	.0	.0	3.2	33.5
Flat, other	.2	.0	.0	.7	.0	.1	.0	.1	.1	.0	.0	.2	1.4
Rockfish	.1	.0	.0	.0	.0	.0	.0	-	.0	.2	.0	.1	.5
Atka mack.	.0	.0	.0	.1	.0	.0	.0	.0	.0	4.7	2.4	.4	7.7
Oth. & unk.	-	-	-	-	-	-	-	-	-	-	-	.7	.7
Total	21.4	.1	1.1	6.1	5.2	27.3	.3	13.7	13.4	5.7	2.6	10.9	107.7
All gear total	22.4	.2	4.0	8.0	5.5	27.3	.8	14.1	13.5	6.1	2.8	23.5	128.1

Notes: Totals may include additional categories. The target, calculated by AFSC staff, is based on processor, week, processing mode, NMFS area, and gear. These estimates include only catch counted against Federal TACs. Although these are the best available estimates of discards and are used for several management purposes, these estimates are not necessarily accurate. The reasons for this are discussed in the Notes for Table 8.

Source: Blend estimates, National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 10. Gulf of Alaska groundfish discard rates by species, gear, and target fishery, 1999-2000.

	Species											
	Pollock	Sable-fish	Pacific cod	Arrowtooth	Flathd. sole	Rex sole	Flat deep	Flat shallow	Rock-fish	Atka mack.	Other	Total
<b>Year/Gear/Target</b>												
<b>1999</b>												
<b>Hook and line</b>												
Sablefish	99.3%	2.4%	54.5%	99.4%	-	-	84.4%	99.1%	24.9%	-	99.3%	13.5%
Pacific cod	68.4%	2.7%	1.1%	100.0%	99.9%	-	43.8%	99.1%	19.5%	100.0%	98.9%	13.7%
Rockfish	.0%	33.2%	14.9%	100.0%	-	-	56.6%	-	1.7%	-	99.7%	10.4%
Total	68.4%	2.5%	2.6%	99.5%	99.9%	-	80.9%	98.9%	19.1%	100.0%	97.8%	13.6%
<b>Pot</b>												
Pacific cod	57.2%	97.9%	1.4%	99.9%	.0%	.0%	.0%	27.8%	76.2%	100.0%	55.1%	2.1%
Total	57.2%	97.9%	1.4%	43.3%	.0%	.0%	.0%	27.8%	75.2%	100.0%	48.2%	2.1%
<b>Trawl</b>												
<b>Pollock</b>												
bottom	6.5%	25.6%	1.2%	65.6%	26.9%	22.5%	.0%	54.2%	81.9%	-	88.3%	11.7%
pelagic	1.0%	52.0%	1.7%	19.8%	27.8%	28.0%	.0%	22.0%	69.0%	.0%	85.3%	1.5%
Pacific cod	39.9%	94.6%	1.3%	92.6%	36.0%	7.9%	40.5%	23.7%	92.7%	100.0%	95.8%	13.7%
Arrowtooth	57.5%	68.8%	10.4%	30.6%	38.2%	4.0%	12.9%	6.8%	60.7%	.0%	94.6%	31.8%
Rex sole	18.4%	42.3%	10.2%	94.1%	42.4%	1.7%	93.5%	57.0%	76.4%	100.0%	99.9%	58.8%
Flat deep	70.3%	61.9%	30.1%	77.5%	38.5%	5.8%	.6%	59.8%	43.8%	-	82.4%	38.6%
Flat shallow	58.5%	38.7%	54.1%	57.4%	4.0%	.0%	24.4%	8.2%	100.0%	-	69.2%	26.9%
Rockfish	74.2%	25.7%	18.8%	66.8%	33.6%	34.0%	39.4%	55.5%	11.2%	23.1%	98.4%	18.4%
Total	1.9%	42.2%	2.8%	71.2%	35.2%	4.4%	19.3%	19.9%	15.1%	13.0%	82.4%	11.4%
<b>All gear</b>												
Total	2.0%	8.0%	2.4%	73.3%	37.2%	4.4%	20.2%	21.8%	15.3%	13.1%	85.8%	10.9%

Table 10. Continued.

	Species											
	Pollock	Sable-fish	Pacific cod	Arrow-tooth	Flathd. sole	Rex sole	Flat deep	Flat shallow	Rock-fish	Atka mack.	Other	Total
<b>Year/Gear/Target</b>												
<b>2000</b>												
<b>Hook and line</b>												
Sablefish	100.0%	3.4%	25.1%	98.0%	100.0%	-	95.3%	91.2%	31.3%	-	98.8%	14.7%
Pacific cod	84.2%	65.2%	.5%	99.7%	96.6%	-	59.8%	97.9%	12.0%	-	99.3%	18.5%
Rockfish	46.0%	76.9%	19.4%	100.0%	-	-	91.5%	.0%	2.8%	-	99.6%	39.5%
Total	84.2%	4.2%	.8%	98.6%	96.6%	-	94.4%	88.7%	25.2%	-	99.0%	17.0%
<b>Pot</b>												
Pacific cod	54.9%	100.0%	.1%	99.7%	.0%	-	100.0%	17.3%	99.1%	100.0%	87.4%	2.0%
Flat deep	.0%	.0%	.0%	-	-	.0%	.0%	.0%	.0%	-	.0%	.0%
Total	28.1%	8.9%	.1%	99.7%	.0%	.0%	.0%	7.5%	37.8%	100.0%	81.6%	2.0%
<b>Trawl</b>												
<b>Pollock</b>												
bottom	1.5%	63.5%	1.1%	35.5%	10.1%	11.5%	18.6%	14.6%	36.0%	-	81.2%	5.2%
pelagic	.8%	49.9%	1.2%	14.6%	6.2%	2.8%	.0%	6.2%	23.2%	.0%	60.3%	1.3%
Pacific cod	67.5%	71.0%	.2%	86.0%	50.0%	13.4%	36.7%	48.7%	84.5%	100.0%	99.7%	13.2%
Arrowtooth	28.6%	63.1%	16.3%	36.0%	7.0%	1.3%	54.4%	12.9%	65.9%	32.2%	81.2%	33.7%
Flathd. sole	.2%	51.0%	29.2%	87.5%	3.5%	4.8%	2.5%	63.8%	10.3%	-	100.0%	41.7%
Rex sole	51.0%	55.8%	28.2%	90.8%	34.9%	1.1%	91.4%	46.0%	71.8%	6.2%	99.9%	60.8%
Flat deep	40.6%	11.2%	56.0%	77.9%	.0%	.0%	.2%	1.6%	38.0%	-	95.0%	27.7%
Flat shallow	19.0%	68.5%	31.6%	68.0%	.8%	5.7%	.5%	3.0%	19.8%	-	55.0%	23.6%
Rockfish	66.1%	18.0%	19.5%	70.4%	30.2%	47.2%	45.0%	10.0%	6.7%	4.8%	94.0%	16.2%
Total	2.6%	35.9%	4.9%	55.1%	15.4%	2.9%	26.1%	11.1%	11.1%	5.0%	75.5%	13.7%
All gear total	2.9%	8.2%	2.5%	57.4%	15.6%	2.9%	28.9%	11.2%	12.1%	6.1%	86.3%	13.2%

Notes: Totals may include additional categories. The target, calculated by AFSC staff, is based on processor, week, processing mode, NMFS area, and gear. Includes only catch counted against Federal TACs. Although these are the best available estimates of discards and are used for several management purposes, these estimates are not necessarily accurate. The reasons for this are as follows: 1) they are wholly or partially derived from observer estimates; 2) discards occur at many different places on vessels; 3) observers record only a rough approximation of what they see; and 4) the estimation methods used by at-sea observers focus on providing good estimates of total catch by species, not on the disposition of that catch.

Source: Blend estimates, National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 11. Bering Sea and Aleutian Islands groundfish discard rates by species, gear, and target fishery, 1999-2000.

	Species											

	Pollock	Sable-fish	Pacific cod	Arrowtooth	Flathd. sole	Rock sole	Turbot	Yellow fin	Flat other	Rock-fish	Atka mack.	Other	Total
<b>Year/Gear/Target</b>													
<b>1999</b>													
<b>Hook and line</b>													
Sablefish	10.4%	4.8%	67.2%	96.9%	100.0%	84.6%	36.6%	-	100.0%	29.2%	-	94.5%	36.5%
Pacific cod	14.6%	35.0%	1.6%	92.3%	97.0%	95.2%	17.7%	97.4%	97.8%	89.3%	94.2%	88.1%	11.8%
Arrowtooth	-	6.0%	-	31.6%	-	-	-	-	100.0%	32.7%	-	100.0%	38.2%
Turbot	20.8%	22.2%	4.8%	97.4%	44.6%	100.0%	4.9%	-	100.0%	15.8%	-	99.8%	23.1%
<b>Total</b>	<b>14.7%</b>	<b>10.3%</b>	<b>1.7%</b>	<b>91.3%</b>	<b>95.3%</b>	<b>97.5%</b>	<b>7.8%</b>	<b>97.4%</b>	<b>97.8%</b>	<b>56.2%</b>	<b>94.2%</b>	<b>88.5%</b>	<b>12.7%</b>
<b>Pot</b>													
Pacific cod	72.8%	47.2%	.5%	91.6%	71.0%	99.8%	2.9%	99.0%	1.5%	94.0%	98.3%	90.8%	5.1%
<b>Total</b>	<b>72.8%</b>	<b>13.6%</b>	<b>.5%</b>	<b>92.6%</b>	<b>71.0%</b>	<b>99.8%</b>	<b>19.3%</b>	<b>99.0%</b>	<b>1.7%</b>	<b>88.9%</b>	<b>98.3%</b>	<b>90.7%</b>	<b>5.2%</b>
<b>Trawl</b>													
<b>Pollock</b>													
bottom	12.4%	33.7%	6.2%	65.2%	51.7%	68.0%	34.9%	17.8%	95.4%	71.6%	52.4%	92.2%	19.5%
pelagic	.6%	4.3%	6.1%	67.8%	64.7%	71.7%	43.9%	71.4%	1.6%	29.3%	.7%	52.0%	.8%
Pacific cod	76.7%	42.0%	1.1%	85.7%	52.5%	83.8%	46.9%	87.4%	76.9%	92.0%	86.7%	99.2%	32.1%
Arrowtooth	41.1%	18.1%	4.2%	27.6%	12.5%	35.1%	51.9%	31.4%	6.4%	56.5%	9.2%	98.7%	31.7%
Flathd. sole	56.3%	.3%	13.4%	88.8%	12.7%	75.0%	12.8%	55.0%	88.6%	8.4%	.5%	99.9%	45.4%
Rock sole	63.7%	91.9%	4.1%	89.4%	46.7%	45.0%	.0%	36.9%	95.5%	92.1%	100.0%	98.3%	45.9%
Turbot	78.0%	6.3%	13.5%	75.0%	3.1%	71.4%	8.4%	70.2%	6.9%	6.9%	9.2%	99.4%	34.2%
Yellowfin	34.4%	.0%	12.4%	47.7%	22.3%	68.9%	15.1%	13.9%	91.7%	38.1%	.1%	96.9%	31.8%
Flat, other	72.4%	69.9%	11.1%	90.4%	20.7%	80.1%	68.0%	73.1%	7.2%	43.8%	41.6%	98.9%	64.9%
Rockfish	15.5%	.0%	2.0%	35.1%	13.7%	36.1%	6.5%	-	19.1%	5.7%	20.4%	93.7%	7.5%
Atka mack.	37.1%	1.4%	4.6%	71.9%	31.6%	82.3%	15.2%	29.0%	7.8%	86.3%	7.8%	98.9%	17.1%
Oth. & unk.	-	-	-	-	-	-	-	-	-	-	-	74.4%	74.4%
<b>Total</b>	<b>2.9%</b>	<b>15.9%</b>	<b>2.9%</b>	<b>73.8%</b>	<b>24.7%</b>	<b>62.4%</b>	<b>22.6%</b>	<b>17.7%</b>	<b>84.8%</b>	<b>35.6%</b>	<b>8.8%</b>	<b>93.7%</b>	<b>8.9%</b>
<b>All gear</b>													
<b>Total</b>	<b>3.0%</b>	<b>11.6%</b>	<b>2.1%</b>	<b>76.2%</b>	<b>25.9%</b>	<b>62.4%</b>	<b>12.4%</b>	<b>18.0%</b>	<b>84.9%</b>	<b>36.1%</b>	<b>8.9%</b>	<b>91.0%</b>	<b>9.1%</b>

Table 11. Continued.

	Species												
	Pollock	Sable-fish	Pacific cod	Arrowtooth	Flathd. sole	Rock sole	Turbot	Yellow fin	Flat other	Rock-fish	Atka mack.	Other	Total
<b>Year/Gear/Target</b>													
<b>2000</b>													
<b>Hook and line</b>													
Sablefish	60.9%	.8%	41.7%	92.2%	71.5%	99.0%	56.2%	-	100.0%	39.7%	25.8%	96.0%	37.9%
Pacific cod	20.8%	58.5%	2.8%	94.7%	95.7%	99.8%	41.1%	94.5%	99.2%	83.4%	97.2%	85.2%	14.8%
Turbot	33.1%	15.8%	26.0%	95.8%	100.0%	100.0%	4.1%	-	100.0%	39.6%	100.0%	95.7%	18.5%
Total	20.8%	8.3%	2.9%	94.4%	95.7%	99.7%	9.9%	94.5%	99.2%	60.4%	97.2%	85.4%	15.3%
<b>Pot</b>													
Sablefish	66.7%	.3%	3.8%	51.4%	-	.0%	46.3%	-	100.0%	88.0%	.0%	1.7%	7.9%
Pacific cod	47.1%	-	.4%	82.0%	1.9%	94.5%	100.0%	99.7%	32.6%	96.5%	98.4%	97.0%	5.0%
Total	47.2%	.4%	.4%	48.8%	1.9%	94.1%	38.1%	99.7%	32.7%	95.3%	97.3%	96.9%	5.1%
<b>Trawl</b>													
<b>Pollock</b>													
bottom	.8%	1.0%	6.9%	34.9%	53.7%	79.2%	18.9%	51.9%	86.9%	60.6%	67.5%	90.0%	8.0%
pelagic	.1%	18.3%	4.7%	45.6%	49.6%	66.5%	64.2%	51.7%	11.1%	70.9%	34.1%	67.7%	.5%
Pacific cod	67.7%	82.4%	.6%	82.2%	62.7%	78.2%	64.4%	82.3%	90.8%	92.7%	61.7%	98.7%	24.0%
Arrowtooth	47.5%	6.2%	2.4%	37.0%	17.3%	83.5%	33.3%	83.4%	13.3%	13.0%	.8%	98.6%	37.6%
Flathd. sole	64.1%	39.1%	1.8%	65.4%	12.3%	61.9%	12.8%	28.3%	70.3%	34.4%	2.1%	87.5%	38.1%
Rock sole	46.8%	.0%	3.0%	81.0%	40.6%	47.8%	40.8%	16.7%	88.7%	50.8%	80.0%	97.4%	43.7%
Turbot	39.8%	.0%	.0%	12.1%	1.1%	47.7%	.1%	3.3%	3.5%	4.3%	.0%	79.3%	8.8%
Yellowfin	43.1%	100.0%	6.2%	46.0%	20.5%	55.2%	25.9%	13.6%	90.4%	85.1%	.0%	91.7%	29.1%
Flat, other	63.2%	8.4%	.6%	73.1%	13.5%	52.2%	15.5%	32.8%	7.2%	37.4%	.0%	100.0%	42.2%
Rockfish	49.5%	.0%	.0%	8.0%	15.0%	6.3%	1.6%	-	7.0%	2.6%	18.9%	91.7%	5.3%
Atka mack.	8.4%	7.2%	1.4%	45.0%	12.2%	76.1%	19.8%	100.0%	18.7%	77.6%	5.2%	97.6%	13.8%
Oth. & unk.	-	-	-	-	-	-	-	-	-	-	-	87.1%	87.1%
Total	1.9%	17.1%	1.4%	54.4%	25.7%	55.0%	14.6%	16.4%	81.8%	36.0%	5.6%	91.8%	7.4%
<b>All gear</b>													
Total	2.0%	9.2%	2.1%	60.4%	26.8%	55.0%	11.3%	16.8%	81.9%	37.1%	5.9%	88.6%	8.0%

Notes: All groundfish and all gear may include additional categories. The target, calculated by AFSC staff, is based on processor, week, processing mode, NMFS area, and gear. These estimates include only catch counted against Federal TACs. Although these are the best available estimates of discards and are used for several management purposes, these estimates are not necessarily accurate. The reasons for this are discussed in the Notes for Table 8.

Source: Blend estimates, National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0700.

Table 12. Prohibited species bycatch by species, area and gear, 1997-2000 (metric tons (t) or number in 1,000s)

	Halibut mort.	Herring	Chinook	Other salmon	Red King crab	Other k.crab	Bairdi	Other tanner
	t	t	1,000s	1,000s	1,000s	1,000s	1,000s	1,000s
<b>BSAI Hook and line</b>								
1997	900	0	0	0	5	3	11	141
1998	775	0	0	0	3	6	6	156
1999	581	0	0	0	8	4	3	92
2000	831	0	0	0	5	7	8	109
<b>BSAI Pot</b>								
1997	11	0	0	0	21	1	39	413
1998	4	0	0	0	4	21	41	403
1999	3	0	0	0	1	45	41	179
2000	4	0	0	0	35	12	133	162
<b>BSAI Trawl</b>								
1997	3,602	1,293	51	67	51	24	1,918	5,276
1998	3,297	906	50	51	37	15	1,447	4,047
1999	3,434	892	12	47	85	18	872	1,342
2000	3,196	512	7	58	77	18	1,001	3,014
<b>BSAI All gear</b>								
1997	4,512	1,293	51	67	76	28	1,968	5,830
1998	4,076	906	50	51	44	42	1,494	4,606
1999	4,018	892	12	47	94	67	915	1,613
2000	4,031	512	7	58	116	36	1,141	3,285
<b>GOA Pot</b>								
1997	10	0	0	0	0	0	219	0
1998	13	0	0	0	0	0	91	1
1999	41	0	0	0	0	0	50	1
2000	7	0	0	0	0	0	66	30
<b>GOA Trawl</b>								
1997	2,143	9	16	3	0	2	197	8
1998	2,085	21	15	9	0	1	106	3
1999	2,198	10	32	8	0	2	30	2
2000	1,934	5	27	11	0	1	49	3
<b>GOA All gear</b>								
1997	2,152	9	16	3	0	2	416	9
1998	2,098	21	15	9	0	1	198	3
1999	2,239	10	32	8	0	2	80	4
2000	1,941	5	27	11	0	1	115	34
<b>BSAI and GOA All gear</b>								
1997	6,664	1,302	67	70	76	30	2,384	5,839
1998	6,174	927	65	60	45	43	1,692	4,610
1999	6,257	903	44	54	94	69	995	1,617
2000	5,972	517	34	69	116	37	1,256	3,319

Table 12. Continued.

Notes: These estimates include only catches counted against Federal TACs. Totals may include additional categories. The estimates of halibut bycatch mortality are based on the International Pacific Halibut Commission discard mortality rates that were used for in-season management. The halibut Individual Fishing Quota program allows retention of halibut in the hook-and-line groundfish fisheries, making true halibut bycatch numbers unavailable. This is particularly a problem in the GOA for all hook-and-line fisheries and in the BSAI for the Sablefish hook-and-line fishery. Therefore, estimates of halibut bycatch mortality are not included in this table for those fisheries.

Source: Blend estimates, National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 13. Prohibited species bycatch in the Gulf of Alaska by species, gear, and groundfish target fishery, 1999-2000. (Metric tons (t) or number in 1,000s)

	Halibut mort.	Herring	Red king crab	Other k.crab	Bairdi	Other tanner	Chinook	Other salmon
	t	t	1,000s	1,000s	1,000s	1,000s	1,000s	1,000s
<b>Year/Gear/Target</b>								
<b>1999</b>								
Hook and line								
Sablefish	n.a.	.0	.0	.0	.0	.0	.0	.0
Pacific cod	n.a.	.0	.1	.0	.0	.3	.0	.0
Flat deep	n.a.	.0	.0	.0	.0	.0	.0	.0
Rockfish	n.a.	.0	.0	.0	.0	.0	.0	.0
Total	n.a.	.0	.1	.0	.0	.4	.0	.0
Pot								
Pacific cod	40.9	.0	.0	.1	50.1	1.0	.0	.0
Total	40.9	.0	.0	.1	50.1	1.0	.0	.0
Trawl								
Pollock								
bottom	5.4	1.4	.0	.0	.0	.0	3.3	.1
pelagic	11.8	7.9	.0	.0	.0	.0	24.1	5.2
Pacific cod	1,235.3	1.0	.0	.0	22.5	1.8	1.5	.1
Arrowtooth	138.7	.0	.0	.1	2.2	.0	.4	.1
Rex sole	238.4	.0	.0	.1	1.4	.2	1.6	.3
Flat deep	137.3	.0	.0	.3	2.2	.1	.0	.0
Flat shallow	53.0	.0	.0	.0	1.0	.3	.0	.0
Rockfish	372.0	.0	.2	1.2	.7	.0	1.0	1.9
Total	2,198.0	10.3	.2	1.7	30.0	2.4	32.0	7.8
All gear								
Total	2,238.9	10.3	.3	1.8	80.1	3.7	32.0	7.8

Table 13. Continued.

	Halibut mort.	Herring	Red king crab	Other k.crab	Bairdi	Other tanner	Chinook	Other salmon
	t	t	1,000s	1,000s	1,000s	1,000s	1,000s	1,000s
<b>Year/Gear/Target</b>								
<b>2000</b>								
<b>Hook and line</b>								
Sablefish	n.a.	.0	.0	.0	.0	.0	.0	.0
Pacific cod	n.a.	.0	.0	.0	.2	.1	.0	.0
Flat shallow	n.a.	.0	.0	.0	.0	.0	.0	.0
Rockfish	n.a.	.0	.0	.0	.0	.0	.0	.0
Total	n.a.	.0	.0	.0	.2	.1	.0	.0
<b>Pot</b>								
Pacific cod	6.9	.0	.0	.0	65.6	30.3	.0	.0
Flat deep	.0	.0	.0	.0	.0	.0	.0	.0
Total	6.9	.0	.0	.0	65.6	30.3	.0	.0
<b>Trawl</b>								
<b>Pollock</b>								
bottom	46.2	.4	.0	.0	2.1	.9	5.1	3.4
pelagic	57.4	4.3	.0	.1	2.2	.1	13.5	4.1
Sablefish	.2	.0	.0	.0	.0	.0	.0	.0
Pacific cod	347.0	.0	.0	.0	10.6	.9	2.1	.0
Arrowtooth	380.0	.4	.0	.0	8.9	.3	2.1	1.7
Flathd. sole	4.5	.0	.0	.0	3.0	.0	.0	.0
Rex sole	230.1	.0	.0	.1	2.9	.6	2.1	.4
Flat deep	43.6	.0	.0	.0	.0	.0	.1	.0
Flat shallow	577.5	.2	.1	.2	18.9	.5	.6	.8
Rockfish	245.5	.1	.0	.3	.3	.0	1.4	.7
Total	1,933.7	5.3	.1	.7	48.8	3.4	27.0	11.2
<b>All gear</b>								
Total	1,940.6	5.3	.1	.7	114.5	33.7	27.0	11.2

**Notes:** These estimates include only catches counted against Federal TACs. Totals may include additional categories. The estimates of halibut bycatch mortality are based on the International Pacific Halibut Commission discard mortality rates that were used for in-season management. The halibut Individual Fishing Quota program allows retention of halibut in the hook-and-line groundfish fisheries, making true halibut bycatch numbers unavailable. Therefore, estimates of halibut bycatch mortality are not included in this table for those fisheries.

**Source:** Blend estimates, National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 14. Prohibited species bycatch in the Bering Sea and Aleutian Islands by species, gear, and groundfish target fishery, 1999-2000. (Metric tons (t) or number in 1,000s)

	Halibut mort.	Herring	Red king crab	Other k.crab	Bairdi	Other tanner	Chinook	Other salmon
	t	t	1,000s	1,000s	1,000s	1,000s	1,000s	1,000s
<b>Year/Gear/Target</b>								
<b>1999</b>								
Hook and line								
Sablefish	n.a.	.0	.0	.9	.0	.1	.0	.0
Pacific cod	500.8	.0	7.9	1.8	2.8	91.6	.0	.0
Arrowtooth	.0	.0	.0	.0	.0	.0	.0	.0
Turbot	79.5	.0	.0	.7	.0	.7	.0	.0
Rockfish	.6	.0	.0	.0	.0	.0	.0	.0
Total	581.1	.0	7.9	3.6	2.8	92.5	.0	.0
Pot								
Sablefish	.2	.0	.0	3.3	.0	.4	.0	.0
Pacific cod	2.8	.0	1.0	14.2	40.6	177.8	.0	.0
Turbot	.0	.0	.0	27.9	.0	.7	.0	.0
Total	3.0	.0	1.0	45.4	40.6	178.8	.0	.0
Trawl								
Pollock								
bottom	85.0	16.3	2.3	.3	11.8	21.6	.0	.7
pelagic	67.3	783.3	.0	.0	.5	11.0	10.2	44.2
Pacific cod	1,300.1	.6	5.9	3.6	109.3	264.3	1.8	.0
Arrowtooth	58.6	.2	.0	.8	.5	.8	.0	.0
Flathd. sole	401.5	.9	.1	1.0	137.4	213.4	.1	.1
Rock sole	518.1	5.9	63.8	.3	139.5	111.6	.2	.3
Turbot	15.6	.2	.0	1.2	4.8	1.0	.0	.0
Yellowfin	734.8	83.0	12.6	2.4	452.3	657.2	.0	.7
Flat, other	42.7	.2	.0	1.7	15.4	59.5	.0	.0
Rockfish	51.8	.0	.0	6.1	.0	.2	.0	.0
Atka mack.	157.9	1.7	.0	1.2	.4	1.2	.0	.5
Total	3,433.6	892.5	84.7	18.5	871.9	1,341.8	12.4	46.6
All gear								
Total	4,017.6	892.5	93.6	67.5	915.3	1,613.0	12.4	46.6

Table 14. Continued.

	Halibut mort. t	Herring t	Red king crab 1,000s	Other k.crab 1,000s	Bairdi 1,000s	Other tanner 1,000s	Chinook 1,000s	Other salmon 1,000s
<b>Year/Gear/Target</b>								
<b>2000</b>								
<b>Hook and line</b>								
Sablefish	n.a.	.0	.0	1.1	.0	.1	.0	.0
Pacific cod	712.7	.0	4.8	3.6	7.9	107.8	.0	.0
Turbot	109.9	.0	.0	1.8	.0	.9	.0	.0
Rockfish	1.4	.0	.0	.1	.0	.0	.0	.0
Total	831.4	.0	4.8	6.5	7.9	108.9	.0	.0
<b>Pot</b>								
Sablefish	2.6	.0	.0	6.2	.0	.3	.0	.0
Pacific cod	1.1	.0	34.5	5.0	132.8	161.4	.0	.0
Total	3.7	.0	34.5	11.7	132.8	161.6	.0	.0
<b>Trawl</b>								
<b>Pollock</b>								
bottom	19.4	3.8	.0	.0	5.3	13.4	.2	.3
pelagic	78.9	480.8	.0	.1	.2	2.9	4.1	56.6
Pacific cod	903.9	.7	5.7	.9	81.8	122.8	2.3	.1
Arrowtooth	67.9	.1	.0	1.4	8.6	5.3	.0	.0
Flathd. sole	391.0	1.7	.1	3.6	203.0	297.8	.3	.1
Rock sole	519.2	2.0	54.0	.6	209.2	192.0	.0	.0
Turbot	23.4	.0	.1	4.8	1.1	2.9	.0	.0
Yellowfin	866.3	22.7	15.7	2.7	482.1	2,353.9	.1	.2
Flat, other	69.7	.0	.0	1.6	9.2	23.5	.2	.0
Rockfish	8.9	.0	1.0	2.4	.0	.0	.0	.0
Atka mack.	247.2	.0	.0	.0	.0	.0	.0	.3
Total	3,195.9	511.8	76.7	18.1	1,000.5	3,014.5	7.1	57.6
<b>All gear</b>								
Total	4,031.0	511.8	116.0	36.3	1,141.3	3,285.0	7.1	57.6

**Notes:** These estimates include only catches counted against Federal TACs. Totals may include additional categories. The estimates of halibut bycatch mortality are based on the International Pacific Halibut Commission discard mortality rates that were used for in-season management. The halibut Individual Fishing Quota program allows retention of halibut in the hook-and-line groundfish fisheries, making true halibut bycatch numbers unavailable. This is particularly a problem in the BSAI sablefish hook-and-line fishery. Therefore, estimates of halibut bycatch mortality are not included in this table for that fishery.

**Source:** Blend estimates, National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 15. Prohibited species bycatch rates in the Gulf of Alaska by species, gear, and groundfish target fishery, 1999-2000.

	Halibut mort.	Herring	Red king crab	Other k.crab	Bairdi	Other tanner	Chinook	Other salmon
	t/t	t/t	No./t	No./t	No./t	No./t	No./t	No./t
<b>Year/Gear/Target</b>								
<b>1999</b>								
<b>Hook and line</b>								
Sablefish	n.a.	.000	.000	.000	.000	.000	.000	.000
Pacific cod	n.a.	.000	.004	.000	.000	.024	.000	.000
Flat deep	n.a.	.000	.000	.000	.000	.000	.000	.000
Rockfish	n.a.	.000	.000	.027	.000	.003	.000	.000
Total	n.a.	.000	.002	.001	.000	.014	.000	.000
<b>Pot</b>								
Pacific cod	.002	.000	.000	.004	2.644	.053	.000	.000
Total	.002	.000	.000	.004	2.638	.053	.000	.000
<b>Trawl</b>								
<b>Pollock</b>								
bottom	.001	.000	.000	.000	.008	.002	.750	.032
pelagic	.000	.000	.000	.000	.000	.000	.268	.058
Pacific cod	.030	.000	.000	.000	.547	.043	.037	.002
Arrowtooth	.031	.000	.000	.019	.491	.001	.090	.023
Rex sole	.030	.000	.000	.012	.181	.024	.207	.041
Flat deep	.037	.000	.000	.082	.606	.015	.004	.001
Flat shallow	.037	.000	.001	.000	.667	.240	.002	.001
Rockfish	.014	.000	.009	.046	.024	.000	.039	.070
Total	.012	.000	.001	.010	.166	.013	.177	.043
<b>All gear</b>								
Total	.010	.000	.001	.008	.354	.017	.142	.034

Table 15. Continued.

	Halibut mort.	Herring	Red king crab	Other k.crab	Bairdi	Other tanner	Chinook	Other salmon
	t/t	t/t	No./t	No./t	No./t	No./t	No./t	No./t
<b>Year/Gear/Target</b>								
<b>2000</b>								
<b>Hook and line</b>								
Sablefish	n.a.	.000	.000	.000	.000	.000	.000	.000
Pacific cod	n.a.	.000	.003	.000	.012	.005	.000	.000
Flat shallow	n.a.	.000	.000	.000	.000	.000	.000	.000
Rockfish	n.a.	.000	.000	.029	.000	.002	.000	.000
Total	n.a.	.000	.002	.001	.006	.003	.000	.000
<b>Pot</b>								
Pacific cod	.000	.000	.000	.002	3.715	1.717	.001	.000
Flat deep	.000	.000	.000	.000	.000	.000	.000	.000
Total	.000	.000	.000	.002	3.688	1.704	.001	.000
<b>Trawl</b>								
<b>Pollock</b>								
bottom	.004	.000	.000	.000	.198	.086	.473	.320
pelagic	.001	.000	.000	.002	.034	.002	.210	.063
Sablefish	.007	.000	.000	.000	.016	.046	.069	.000
Pacific cod	.014	.000	.000	.001	.433	.036	.084	.000
Arrowtooth	.022	.000	.000	.002	.516	.020	.124	.097
Flathd. sole	.026	.000	.000	.000	17.560	.067	.007	.005
Rex sole	.028	.000	.000	.011	.347	.066	.250	.053
Flat deep	.044	.000	.000	.013	.046	.045	.079	.018
Flat shallow	.059	.000	.006	.016	1.930	.049	.064	.082
Rockfish	.010	.000	.000	.012	.011	.000	.059	.030
Total	.012	.000	.000	.004	.305	.021	.169	.070
<b>All gear</b>								
Total	.009	.000	.001	.004	.554	.163	.130	.054

Notes: Totals may include additional categories. The target, calculated by AFSC staff, is based on processor, week, processing mode, NMFS area and gear. These estimates include only catch counted against Federal TACs. International Pacific Halibut Commission discard mortality rates are used to estimate halibut mortality. The halibut Individual Fishing Quota program allows retention of halibut in the hook-and-line groundfish fisheries making true halibut bycatch numbers unavailable. No prohibited species bycatch numbers were available for the sablefish fishery.

Source: Blend estimates, National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 16. Prohibited species bycatch rates in the Bering Sea and Aleutian Islands by species, gear, and groundfish target fishery, 1999-2000.

	Halibut mort.	Herring t/t	Red king crab No./t	Other k.crab No./t	Bairdi No./t	Other tanner No./t	Chinook No./t	Other salmon No./t
<b>Year/Gear/Target</b>								
<b>1999</b>								
Hook and line								
Sablefish	n.a.	.000	.001	.596	.000	.045	.000	.004
Pacific cod	.005	.000	.075	.017	.027	.872	.000	.000
Arrowtooth	.000	.000	.000	.405	.000	.000	.000	.000
Turbot	.016	.000	.001	.153	.002	.136	.000	.005
Rockfish	.023	.000	.002	.691	.000	.128	.000	.000
Total	.005	.000	.071	.032	.025	.828	.000	.000
Pot								
Sablefish	.006	.000	.000	110.81	.000	11.819	.000	.000
Pacific cod	.000	.000	.057	.834	2.381	10.438	.001	.000
Turbot	.000	.000	.000	832.06	.618	20.342	.000	.000
Total	.000	.000	.057	2.657	2.373	10.460	.001	.000
Trawl								
Pollock								
bottom	.006	.001	.167	.021	.873	1.595	.003	.055
pelagic	.000	.001	.000	.000	.001	.012	.011	.047
Pacific cod	.015	.000	.070	.043	1.294	3.131	.021	.000
Arrowtooth	.036	.000	.000	.470	.320	.504	.000	.000
Flathd. sole	.013	.000	.004	.033	4.288	6.660	.002	.004
Rock sole	.016	.000	1.932	.009	4.226	3.380	.006	.010
Turbot	.008	.000	.000	.633	2.530	.504	.000	.000
Yellowfin	.007	.001	.128	.024	4.561	6.627	.000	.007
Flat, other	.015	.000	.012	.602	5.551	21.481	.018	.001
Rockfish	.004	.000	.000	.452	.000	.011	.000	.000
Atka mack.	.002	.000	.000	.018	.006	.018	.001	.008
Total	.003	.001	.065	.014	.673	1.035	.010	.036
All gear								
Total	.003	.001	.066	.047	.642	1.132	.009	.033

Table 16. Continued.

	Halibut mort.	Herring	Red king crab	Other k.crab	Bairdi	Other tanner	Chinook	Other salmon
	t/t	t/t	No./t	No./t	No./t	No./t	No./t	No./t
<b>Year/Gear/Target</b>								
<b>2000</b>								
<b>Hook and line</b>								
Sablefish	n.a.	.000	.000	.517	.000	.065	.000	.002
Pacific cod	.006	.000	.041	.030	.067	.910	.000	.000
Turbot	.019	.000	.004	.308	.002	.162	.000	.001
Rockfish	.087	.000	.007	5.008	.001	.020	.000	.000
Total	.007	.000	.038	.051	.063	.861	.000	.000
<b>Pot</b>								
Sablefish	.015	.000	.000	36.467	.019	1.609	.000	.029
Pacific cod	.000	.000	1.733	.253	6.667	8.101	.000	.000
Total	.000	.000	1.716	.583	6.602	8.035	.000	.000
<b>Trawl</b>								
<b>Pollock</b>								
bottom	.001	.000	.000	.000	.187	.470	.006	.012
pelagic	.000	.000	.000	.000	.000	.003	.004	.053
Pacific cod	.011	.000	.072	.012	1.035	1.552	.029	.002
Arrowtooth	.025	.000	.000	.505	3.175	1.939	.000	.000
Flathd. sole	.011	.000	.004	.102	5.789	8.492	.008	.003
Rock sole	.010	.000	1.023	.011	3.962	3.636	.001	.000
Turbot	.015	.000	.046	3.081	.673	1.836	.000	.000
Yellowfin	.008	.000	.136	.023	4.188	20.450	.001	.002
Flat, other	.022	.000	.007	.504	2.857	7.273	.058	.000
Rockfish	.001	.000	.105	.243	.001	.000	.000	.000
Atka mack.	.004	.000	.000	.001	.000	.000	.000	.005
Total	.002	.000	.053	.012	.685	2.063	.005	.039
<b>All gear</b>								
Total	.003	.000	.072	.023	.710	2.043	.004	.036

**Notes:** These estimates include only catches counted against Federal TACs. Totals may include additional categories. The estimates of halibut bycatch mortality are based on the International Pacific Halibut Commission discard mortality rates that were used for in-season management. The halibut Individual Fishing Quota program allows retention of halibut in the hook-and-line groundfish fisheries, making true halibut bycatch numbers unavailable. This is particularly a problem in the BSAI sablefish hook-and-line fishery. Therefore, estimates of halibut bycatch mortality are not included in this table for that fishery.

**Source:** Blend estimates, National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 17. Groundfish catch off Alaska by area, residency, and species, 1996-2000, (1,000 metric tons, round weight).

	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Alaska	Other	Unknown	Alaska	Other	Unknown	Alaska	Other	Unknown
<b>Species/Year</b>									
<b>All groundfish</b>									
1996	90	103	8	72	1,764	13	162	1,867	21
1997	108	119	1	67	1,758	6	174	1,877	7
1998	95	148	0	48	1,572	0	144	1,721	0
1999	91	134	0	40	1,384	1	132	1,518	1
2000	90	116	1	52	1,555	1	142	1,671	2
<b>Pollock</b>									
1996	23	25	3	16	1,197	9	39	1,222	12
1997	37	51	0	12	1,134	4	49	1,185	5
1998	36	88	0	4	1,121	0	40	1,208	0
1999	32	61	0	8	981	1	41	1,043	1
2000	30	44	1	11	1,122	1	42	1,166	1
<b>Sablefish</b>									
1996	7	8	1	0	1	0	8	9	1
1997	7	6	0	1	1	0	7	7	0
1998	7	6	0	0	1	0	7	7	0
1999	6	6	0	0	1	0	6	7	0
2000	7	7	0	1	1	0	7	8	0
<b>Pacific cod</b>									
1996	36	28	4	27	211	3	63	239	6
1997	41	26	1	26	230	1	68	256	2
1998	38	24	0	21	174	0	59	198	0
1999	40	28	0	22	152	0	62	180	0
2000	33	21	0	24	167	0	57	188	0
<b>Flatfish</b>									
1996	18	25	1	11	221	1	28	246	2
1997	15	19	0	18	294	0	33	313	0
1998	9	15	0	14	186	0	22	201	0
1999	7	18	0	7	155	0	14	172	0
2000	11	26	0	8	182	0	19	209	0
<b>Rockfish</b>									
1996	4	14	0	2	22	0	6	36	0
1997	5	14	0	1	16	0	6	30	0
1998	5	14	0	1	15	0	5	29	0
1999	5	19	0	0	20	0	5	39	0
2000	6	15	0	2	15	0	8	29	0
<b>Atka mackerel</b>									
1996	0	1	0	13	91	0	13	92	0
1997	0	0	0	7	59	0	7	59	0
1998	0	0	0	6	51	0	6	51	0
1999	0	0	0	0	56	0	0	56	0
2000	0	0	0	3	45	0	3	45	0

Notes: These estimates include only catch counted against Federal TACs. Catch delivered to motherships is classified by the residence of the owner of the mothership. All other catch is classified by the residence of the owner of the fishing vessel. All groundfish include additional species categories.

Source: Blend estimates, fish tickets, CFEC vessel data, National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 18. Ex-vessel prices\* in the groundfish fisheries off Alaska by area, gear, and species, 1996-2000 (\$/lb, round weight).

	Gulf of Alaska		Bering Sea and Aleutian		All Alaska
	Fixed	Trawl	Fixed	Trawl	All gear***
<b>Pollock</b>					
1996	.087	.080	-	.083	.082
1997	.095	.093	-	.102	.100
1998	.086	.071	-	.070	.070
1999	.099	.100	-	.096	.097
2000	.148	.134	-	.118	.120
<b>Sablefish</b>					
1996	2.174	2.395	1.985	.893 **	2.164
1997	2.437	1.887	2.358	1.060 **	2.410
1998	1.680	1.088	1.619	.738 **	1.646
1999	2.014	1.873	1.945	.892 **	1.976
2000	2.659	1.764	2.037	1.009 **	2.558
<b>Pacific cod</b>					
1996	.223	.168	.176	.133	.161
1997	.232	.187	.139	.160	.177
1998	.199	.159	.174	.152	.168
1999	.312	.235	.269	.236	.261
2000	.338	.326	.302	.293	.314
<b>Flatfish</b>					
1996	.228	.156	.301	.152 **	.152
1997	.198	.147	.081	.128 **	.129
1998	.328	.162	-	.112 **	.114
1999	.190	.141	.309	.128 **	.129
2000	.157	.151	.234	.130 **	.131
<b>Rockfish</b>					
1996	.664	.153 **	.817	.141 **	.172
1997	.670	.151 **	.821	.144 **	.174
1998	.629	.108 **	.874	.087 **	.129
1999	.487	.139 **	.613	.104 **	.144
2000	.464	.120 **	.607	.112 **	.144
<b>Atka mackerel</b>					
1996	-	.158 **	-	.145 **	.145
1997	-	.151 **	-	.123 **	.123
1998	-	.261 **	-	.069 **	.069
1999	-	.135 **	-	.090 **	.091
2000	-	.103 **	-	.097 **	.097

\* Prices do not include the value added by at-sea processing; therefore they reflect prices prior to processing. Prices do reflect the value added by dressing fish at sea, where the fish have not been frozen. Except where noted unfrozen landings price is calculated as landed value divided by estimated or actual round weight.

\*\* Since this category is not well represented by on-shore landings, a price was calculated from product-report prices. The price in this case is the value of the product divided by the calculated round weight and multiplied by a constant .4 to correct for value added by processing.

\*\*\* This column is the weighted average of the other columns.

Source: Blend estimates, Commercial Operators Annual Report (COAR).  
National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 19. Ex-vessel value of the groundfish catch off Alaska by area, catcher category, gear, and species, 1996-2000, (\$ millions).

Gulf of Alaska	Bering Sea and Aleutian	All Alaska
Catcher vessels process	Catcher/ Total vessels process	Catcher/ Total vessels process

	ors			ors			ors		
All gear									
All species									
1996	105.6	22.2	127.8	122.6	286.7	409.3	228.2	308.8	537.0
1997	119.4	24.7	144.1	135.2	311.5	446.7	254.6	336.2	590.9
1998	89.5	17.6	107.1	92.6	211.8	304.5	182.1	229.5	411.6
1999	104.5	26.6	131.1	126.9	213.2	340.1	231.3	239.8	471.1
2000	125.9	25.8	151.6	182.2	230.2	412.4	308.1	255.9	564.0
Hook and line									
All species									
1996	65.9	9.8	75.7	3.3	71.5	74.8	69.2	81.3	150.5
1997	74.5	14.4	88.9	3.6	103.1	106.7	78.2	117.4	195.6
1998	48.6	9.4	58.0	3.0	70.0	73.0	51.6	79.4	131.0
1999	52.5	13.5	66.0	2.5	72.5	74.9	54.9	86.0	140.9
2000	69.4	15.5	84.9	3.6	76.9	80.5	73.1	92.4	165.4
Sablefish									
1996	61.4	6.5	68.0	2.8	2.6	5.4	64.2	9.1	73.4
1997	68.8	11.8	80.6	3.3	4.2	7.6	72.1	16.1	88.2
1998	42.1	7.4	49.5	1.7	1.9	3.7	43.8	9.4	53.2
1999	41.6	9.3	50.9	2.1	3.4	5.5	43.6	12.7	56.4
2000	59.1	10.8	69.9	3.0	4.6	7.6	62.1	15.4	77.5
Pacific cod									
1996	2.3	2.9	5.2	.2	65.4	65.7	2.5	68.3	70.8
1997	3.7	2.2	5.9	-	89.1	89.1	3.7	91.3	95.1
1998	4.3	1.6	5.9	1.2	61.4	62.6	5.5	63.0	68.5
1999	7.6	3.9	11.5	.2	62.8	62.9	7.8	66.7	74.5
2000	5.9	4.4	10.3	.5	66.6	67.1	6.4	71.1	77.5
Flatfish									
1996	.0	.0	.0	.2	2.1	2.2	.2	2.1	2.3
1997	.0	.0	.0	.2	9.0	9.2	.3	9.0	9.3
1998	.0	.0	.0	-	5.7	5.7	.0	5.7	5.7
1999	.0	.0	.0	.1	4.1	4.2	.1	4.1	4.2
2000	.5	.0	.5	.1	4.5	4.5	.5	4.5	5.0
Rockfish									
1996	2.1	.3	2.4	.1	.4	.5	2.2	.7	2.9
1997	2.0	.3	2.3	.1	.5	.6	2.1	.8	2.9
1998	1.9	.4	2.3	.1	.6	.6	2.0	.9	2.9
1999	1.8	.2	2.0	.1	.3	.4	1.9	.5	2.4
2000	2.2	.2	2.5	.1	.5	.6	2.3	.7	3.0
Pot									
Pacific cod									
1996	4.7	-	4.7	8.7	3.3	12.0	13.4	3.3	16.7
1997	5.5	-	5.5	3.8	2.2	6.0	9.3	2.2	11.5
1998	6.6	.0	6.6	2.6	1.6	4.2	9.2	1.6	10.8
1999	11.6	2.9	14.6	7.7	2.7	10.4	19.3	5.6	25.0
2000	14.9	.9	15.8	10.4	1.8	12.3	25.3	2.7	28.0

Table 19. Continued.

	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Catcher vessels	Catcher/ process ors	Total	Catcher vessels	Catcher/ process ors	Total	Catcher vessels	Catcher/ process ors	Total
<b>Trawl</b>									
All species									
1996	34.9	12.4	47.4	110.7	211.8	322.4	145.6	224.2	369.8
1997	39.3	10.3	49.6	127.8	206.3	334.0	167.0	216.6	383.6
1998	34.2	8.2	42.4	87.0	140.2	227.3	121.3	148.4	269.7
1999	40.3	10.2	50.4	116.7	137.9	254.7	157.0	148.1	305.1
2000	41.5	9.4	50.9	168.2	151.4	319.6	209.7	160.8	370.5
Pollock									
1996	11.7	.1	11.8	93.2	121.4	214.6	104.9	121.5	226.5
1997	17.5	.2	17.7	104.6	119.6	224.2	122.1	119.8	241.9
1998	17.9	.0	17.9	75.6	86.7	162.3	93.5	86.8	180.2
1999	18.9	.0	19.0	101.8	80.5	182.3	120.7	80.5	201.3
2000	19.1	.0	19.2	146.4	88.2	234.6	165.6	88.2	253.8
Sablefish									
1996	3.7	3.2	7.0	.0	.3	.3	3.8	3.5	7.3
1997	1.8	3.9	5.7	.0	.1	.1	1.8	4.1	5.9
1998	1.1	2.2	3.3	.0	.2	.2	1.1	2.5	3.5
1999	3.0	2.6	5.6	.0	.5	.5	3.0	3.1	6.1
2000	1.2	3.0	4.1	.0	.6	.6	1.2	3.5	4.7
Pacific cod									
1996	14.1	1.4	15.5	15.5	13.0	28.4	29.6	14.4	44.0
1997	14.7	.4	15.2	18.6	15.5	34.1	33.3	15.9	49.2
1998	12.0	2.1	14.1	10.9	15.0	25.9	22.9	17.1	40.0
1999	15.9	1.5	17.5	14.2	18.3	32.5	30.1	19.8	49.9
2000	16.8	1.6	18.4	20.7	18.3	39.1	37.5	19.9	57.4
Flatfish									
1996	4.0	4.1	8.1	1.9	44.3	46.2	5.9	48.5	54.4
1997	3.8	2.1	6.0	4.4	51.2	55.6	8.3	53.3	61.6
1998	2.2	1.4	3.6	.5	28.6	29.1	2.7	30.0	32.6
1999	.8	1.6	2.4	.7	25.3	26.0	1.5	26.9	28.4
2000	2.4	2.2	4.6	1.0	32.4	33.4	3.4	34.6	38.0
Rockfish									
1996	1.2	3.1	4.3	.0	4.7	4.8	1.3	7.8	9.1
1997	1.2	3.6	4.8	.1	3.8	3.9	1.3	7.4	8.7
1998	1.1	2.4	3.5	.1	1.8	1.9	1.2	4.2	5.4
1999	1.6	4.3	5.9	.0	2.9	2.9	1.6	7.2	8.8
2000	2.0	2.6	4.5	.0	2.5	2.5	2.0	5.0	7.0
Atka mackerel									
1996	.0	.4	.4	.0	27.7	27.7	.0	28.2	28.2
1997	.0	.1	.1	.0	16.0	16.0	.0	16.1	16.1
1998	.0	.1	.1	.0	7.8	7.8	.0	7.9	7.9
1999	.0	.0	.1	.0	10.2	10.2	.0	10.2	10.3
2000	.0	.0	.0	.0	9.5	9.5	.0	9.5	9.5

Note: These estimates include only catch counted against Federal TACS.

Ex-vessel value is calculated using prices on table 18. Please refer to Table 18 for a description of the price derivation. All groundfish includes additional species categories.

Source: Blend estimates, ADFG commercial operators annual reports.

National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 20. Ex-vessel value of Alaska groundfish delivered on shore by area, gear and catcher-vessel length, 1994-2000. (\$ millions)

	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Vessel length			Vessel length			Vessel length		
	<60	60-124	>124	<60	60-124	>124	<60	60-124	>124
<b>Fixed</b>									
1994	39.3	16.0	.0	.8	3.3	.2	40.0	19.2	.2
1995	40.3	36.7	.4	1.5	7.9	1.4	41.8	44.7	1.8
1996	34.4	28.8	.2	.9	7.6	1.7	35.3	36.5	2.0
1997	50.9	38.8	.1	1.6	7.1	1.9	52.5	45.9	2.0
1998	35.3	21.1	.1	.7	3.8	1.0	36.1	24.9	1.1
1999	45.1	26.0	.0	.8	6.8	2.5	45.9	32.8	2.5
2000	65.2	39.2	.9	3.2	7.3	3.4	68.4	46.6	4.3
<b>Trawl</b>									
1994	5.4	21.2	2.7	.1	36.0	45.0	5.5	57.2	47.7
1995	5.2	24.1	4.1	.1	48.1	59.1	5.3	72.2	63.2
1996	9.5	19.1	1.5	.1	46.4	47.2	9.6	65.5	48.7
1997	10.9	24.1	3.3	-	39.0	53.6	10.9	63.1	56.9
1998	8.1	20.8	3.1	.2	24.7	37.6	8.3	45.6	40.7
1999	8.7	25.1	2.0	.3	38.3	46.7	9.0	63.3	48.7
2000	7.5	27.8	.1	.1	51.2	54.8	7.6	79.0	55.0
<b>All gear</b>									
1994	44.7	37.2	2.7	.9	39.3	45.2	45.5	76.5	47.9
1995	45.5	60.8	4.5	1.6	56.1	60.5	47.1	116.9	65.1
1996	43.9	47.9	1.7	1.0	54.0	48.9	44.9	102.0	50.6
1997	61.7	62.9	3.4	1.6	46.1	55.5	63.4	109.0	58.9
1998	43.4	41.9	3.1	.9	28.5	38.6	44.3	70.5	41.7
1999	53.8	51.1	2.0	1.1	45.1	49.2	54.9	96.2	51.2
2000	72.7	67.1	1.1	3.3	58.5	58.2	76.1	125.6	59.3

Note: These estimates include only catch counted against Federal TACS.

Source: ADFG Fishtickets, PacFIN, NMFS permits. National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 20.1. Ex-vessel value per catcher vessel for Alaska groundfish delivered on shore by area, gear and catcher-vessel length, 1994-2000. (\$ thousands)

	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Vessel length			Vessel length			Vessel length		
	<60	60-124	>124	<60	60-124	>124	<60	60-124	>124
<b>Fixed</b>									
1994	33	78	-	13	67	35	33	85	35
1995	43	177	35	18	57	56	43	172	60
1996	39	162	27	15	65	67	39	171	71
1997	58	238	10	31	72	102	59	243	87
1998	44	139	8	17	49	48	44	137	41
1999	55	157	2	24	69	100	55	163	93
2000	70	228	66	53	81	127	71	229	124
<b>Trawl</b>									
1994	92	262	134	29	581	1,552	93	590	1,644
1995	94	246	147	21	642	1,970	94	675	2,108
1996	164	248	86	17	573	1,522	159	601	1,521
1997	188	277	133	-	557	1,674	188	584	1,777
1998	152	237	140	29	380	1,213	150	414	1,312
1999	175	344	81	51	503	1,506	173	621	1,571
2000	151	422	42	19	683	1,768	149	712	1,717
<b>All gear</b>									
1994	37	143	134	13	354	1,292	37	257	1,369
1995	47	216	114	18	268	1,121	47	346	1,103
1996	49	199	66	16	273	874	48	332	858
1997	68	267	109	31	273	1,110	69	385	1,091
1998	53	186	105	19	211	821	54	263	803
1999	65	224	68	27	264	878	65	333	883
2000	77	305	62	51	355	1,004	79	426	885

Note: These estimates include only catch counted against Federal TACS.

Source: ADFG Fishtickets, PacFIN, NMFS permits. National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 21. Ex-vessel value of the groundfish catch off Alaska by area, residency, and species, 1996-2000, (\$ millions).

	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Alaska	Other	Unknown	Alaska	Other	Unknown	Alaska	Other	Unknown
<b>Species/Year</b>									
All groundfish									
1996	61.3	57.1	9.5	24.3	341.2	43.7	85.7	398.3	53.3
1997	74.2	68.3	1.7	27.0	410.1	9.9	101.2	478.4	11.6
1998	55.3	51.8	.1	16.2	289.0	.0	71.4	340.8	.1
1999	64.8	65.0	1.6	19.7	319.9	.4	84.5	385.0	2.0
2000	78.4	70.8	2.5	24.8	389.1	.3	103.1	459.8	2.8
Pollock									
1996	5.3	5.3	1.4	2.5	191.0	21.3	7.8	196.2	22.7
1997	7.4	10.2	.0	1.7	214.8	7.9	9.1	225.0	8.0
1998	5.3	12.8	.0	.5	162.2	.0	5.8	175.0	.0
1999	7.0	13.4	.0	1.5	181.3	.2	8.5	194.7	.2
2000	8.3	12.4	.1	2.3	232.8	.2	10.6	245.2	.3
Sablefish									
1996	37.0	33.0	5.1	1.8	3.8	.1	38.7	36.8	5.2
1997	45.2	39.9	1.4	3.4	4.4	.1	48.6	44.3	1.4
1998	30.2	22.6	.1	1.4	2.4	.0	31.7	25.0	.1
1999	29.5	25.6	1.3	2.0	4.0	.1	31.5	29.7	1.4
2000	38.0	33.8	2.2	3.3	5.3	.0	41.3	39.1	2.2
Pacific cod									
1996	13.0	10.0	2.4	13.8	77.2	15.1	26.8	87.2	17.5
1997	16.1	10.2	.3	15.6	113.1	.5	31.7	123.4	.8
1998	16.3	10.2	.0	11.0	81.7	.0	27.3	92.0	.0
1999	25.4	18.0	.1	13.9	91.8	.0	39.4	109.8	.2
2000	27.5	16.9	.1	15.9	102.5	.1	43.4	119.4	.2
Flatfish									
1996	3.7	4.1	.4	2.5	39.1	6.9	6.2	43.2	7.3
1997	2.7	3.3	.0	4.4	59.1	1.4	7.1	62.4	1.4
1998	1.4	2.2	.0	2.4	32.3	.0	3.8	34.5	.0
1999	.8	1.9	.0	1.7	28.3	.2	2.5	30.2	.2
2000	1.9	3.2	.0	1.8	36.1	.0	3.7	39.3	.0
Rockfish									
1996	2.2	4.3	.2	.2	4.9	.1	2.5	9.2	.3
1997	2.6	4.5	.0	.3	4.2	.0	2.9	8.7	.0
1998	2.0	3.8	.0	.1	2.4	.0	2.1	6.2	.0
1999	1.9	6.0	.0	.1	3.2	.0	2.0	9.2	.0
2000	2.6	4.4	.0	.5	2.6	.0	3.0	6.9	.0
Atka mackerel									
1996	.0	.4	.0	3.6	24.2	.0	3.6	24.6	.0
1997	.0	.1	.0	1.6	14.5	.0	1.6	14.5	.0
1998	.0	.1	.0	.7	7.1	.0	.7	7.2	.0
1999	.0	.1	.0	.0	10.2	.0	.0	10.3	.0
2000	.0	.0	.0	.4	9.0	.0	.4	9.0	.0

Note: These estimates include only catch counted against Federal TACS.

Ex-vessel value is calculated using prices on table 18. Please refer to Table 18 for a description of the price derivation. Catch delivered to motherships is classified by the residence of the owner of the mothership. All other catch is classified by the residence of the owner of the fishing vessel. All groundfish include additional species categories.

Source: Blend estimates, PacFIN prices, ADFG fish tickets, Commercial Operators Annual Report (COAR), weekly processor reports.

National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 22. Ex-vessel value of groundfish delivered to shoreside processors by processor group, 1994-2000. (\$ millions)

	1994	1995	1996	1997	1998	1999	2000
<b>Processor group:</b>							
Alaska Peninsula/Aleutians	12.9	20.9	22.1	22.5	16.7	24.1	26.0
Bering Sea Pollock Processors	80.8	108.0	90.0	103.8	72.1	102.8	153.5
Kodiak	29.8	32.4	27.0	38.8	33.8	40.3	44.1
South Central	13.3	30.7	25.8	27.9	15.6	18.4	25.0
Southeastern	35.2	38.8	34.8	40.3	25.3	25.5	32.0
<b>TOTAL</b>	<b>172.0</b>	<b>230.8</b>	<b>199.7</b>	<b>233.3</b>	<b>163.6</b>	<b>211.2</b>	<b>280.6</b>

Table 22.1 Ex-vessel value of groundfish as a percentage of the ex-vessel value of all species delivered to shoreside processors by processor group, 1994-2000. (percent)

	1994	1995	1996	1997	1998	1999	2000
<b>Processor group:</b>							
Alaska Peninsula/Aleutians	6.2%	10.2%	13.0%	17.6%	12.6%	11.7%	16.6%
Bering Sea Pollock Processors	59.9%	69.5%	66.4%	73.5%	56.6%	56.2%	77.1%
Kodiak	32.1%	30.0%	32.6%	43.5%	39.8%	40.1%	48.0%
South Central	11.9%	28.6%	22.7%	20.7%	18.8%	15.2%	23.1%
Southeastern	20.2%	21.9%	21.7%	26.7%	22.4%	18.6%	23.3%
<b>TOTAL</b>	<b>23.5%</b>	<b>30.4%</b>	<b>29.8%</b>	<b>35.6%</b>	<b>29.5%</b>	<b>27.5%</b>	<b>39.6%</b>

Note: This table includes the value of groundfish purchases reported by processing plants, as well as by other entities, such as markets and restaurants, that normally would not report sales of groundfish products. Keep this in mind when comparing ex-vessel values in this table to gross processed-product values in Table 25. The data are for catch from the EEZ and State waters. The processor groups are defined as follows:

"Bering Sea Pollock Processors" are the AFA inshore pollock processors including the two AFA floating processors.

"Alaska Peninsula/Aleutian" are other processors on the Alaska Peninsula or in the Aleutian Islands.

"Kodiak" are processors on Kodiak Island.

"South Central" are processors west of Yakutat and on the Kenai Peninsula.

"Southeastern" are processors located from Yakutat south.

Source: ADFG Commercial Operators Annual Report, ADFG intent to process.

National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 23. Gross product value of Alaska groundfish by area and processing mode, 1995-2000 (\$ millions).

	Gulf of Alaska		Bering Sea and Aleutian		All Alaska	
	At-sea	Shoreside	Motherships	Catcher/ processors	Shoreside	Total
1995	46.0	232.2	80.0	704.7	330.1	1,393.0
1996	48.2	233.0	71.3	634.6	279.3	1,266.4
1997	29.9	213.3	79.6	626.8	203.4	1,153.2
1998	27.7	237.2	59.1	542.6	160.7	1,027.4
1999	42.9	207.6	58.2	582.6	289.4	1,180.7
2000	41.6	199.1	75.6	611.0	399.4	1,326.8

Note: For shoreside processors, these estimates include production resulting from catch from Federal and State of Alaska fisheries. For at-sea processors, they only include production from catches counted against Federal TACs. Catcher/processors that at times during a year act like motherships are classified as catcher/processors for the entire year. For shoreside processors the area represents the location of the plant, not necessarily the area of the catch.

Source: NMFS weekly production reports and ADFG Commercial Operators Annual Reports (COAR).  
 National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 24. Gross product value of Alaska groundfish by catcher/processor category, vessel length, and area, 1995-2000 (\$ millions).

	Gulf of Alaska				Bering Sea and Aleutian			
	Vessel length		Vessel length					
	≤124	>124	≤124	125-165	>165	165-235	236-260	>260
<b>Fixed Gear</b>								
1995	9.0	3.9	14.9	42.0	23.1	-	-	-
1996	9.5	2.9	18.4	37.4	30.7	-	-	-
1997	8.5	1.9	17.2	37.8	30.5	-	-	-
1998	6.4	1.7	18.0	46.4	39.3	-	-	-
1999	11.0	8.5	22.1	51.8	46.6	-	-	-
2000	11.5	3.8	25.3	56.6	52.4	-	-	-
<b>Fillet Trawl</b>								
1995	-	5.2	-	-	-	70.8	35.3	-
1996	-	6.2	-	-	-	68.5	42.8	-
1997	-	3.0	-	-	-	63.3	31.8	-
1998	-	2.3	-	-	-	62.5	33.6	-
1999	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-
<b>H&amp;G Trawl</b>								
1995	7.1	17.9	8.5	28.3	113.2	-	-	-
1996	12.7	14.5	15.5	30.6	124.6	-	-	-
1997	6.7	9.8	19.7	26.9	100.9	-	-	-
1998	6.7	10.4	17.0	17.4	70.4	-	-	-
1999	9.2	13.3	19.8	23.7	72.1	-	-	-
2000	9.4	15.7	24.2	24.3	84.9	-	-	-
<b>Surimi Trawl</b>								
1995	-	-	-	-	-	-	-	296.5
1996	-	-	-	-	-	-	-	223.5
1997	-	-	-	-	-	-	-	244.9
1998	-	-	-	-	-	-	-	197.3
1999	-	-	-	-	-	-	-	249.3
2000	-	-	-	-	-	-	-	248.4
<b>All Trawl</b>								
1995	7.1	23.1	8.5	28.3	113.2	70.8	35.3	296.5
1996	12.7	20.7	15.5	30.6	124.6	68.5	42.8	223.5
1997	6.7	12.8	19.7	26.9	100.9	63.3	31.8	244.9
1998	6.7	12.7	17.0	17.4	70.4	62.5	33.6	197.3
1999	9.2	13.3	19.8	23.7	72.1	-	-	249.3
2000	9.4	15.7	24.2	24.3	84.9	-	-	248.4

Note: Includes only catches counted against Federal TACs.

Source: NMFS weekly production reports, COAR prices, and NMFS permits.

National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 24.1 Gross product value per vessel of Alaska groundfish by catcher/processor category, vessel length, and area 1995-2000 (\$ millions).

Gulf of Alaska	Bering Sea and Aleutian
----------------	-------------------------

	Vessel length		Vessel length					
	≤124	>124	≤124	125-165	>165	165-235	236-260	>260
<b>Fixed Gear</b>								
1995	.4	.3	.7	2.1	1.9	-	-	-
1996	.6	.4	.8	2.1	2.2	-	-	-
1997	.6	.4	.9	2.2	2.2	-	-	-
1998	.6	.3	1.0	2.6	3.3	-	-	-
1999	.6	.4	1.2	2.7	3.9	-	-	-
2000	.8	.4	1.7	2.7	3.5	-	-	-
<b>Fillet Trawl</b>								
1995	-	1.7	-	-	-	8.9	11.8	-
1996	-	.8	-	-	-	8.6	10.7	-
1997	-	1.0	-	-	-	7.9	10.6	-
1998	-	.4	-	-	-	8.9	11.2	-
1999	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-
<b>H&amp;G Trawl</b>								
1995	1.0	1.1	.8	4.0	6.3	-	-	-
1996	1.4	.9	1.9	6.1	7.8	-	-	-
1997	1.1	.7	1.6	5.4	8.4	-	-	-
1998	1.0	.9	2.1	4.3	6.4	-	-	-
1999	1.5	1.2	2.2	5.9	6.6	-	-	-
2000	1.9	1.2	3.0	6.1	7.7	-	-	-
<b>Surimi Trawl</b>								
1995	-	-	-	-	-	-	-	18.5
1996	-	-	-	-	-	-	-	14.0
1997	-	-	-	-	-	-	-	17.5
1998	-	-	-	-	-	-	-	14.1
1999	-	-	-	-	-	-	-	22.7
2000	-	-	-	-	-	-	-	24.8
<b>All Trawl</b>								
1995	1.0	1.2	.8	4.0	6.3	7.1	7.1	16.5
1996	1.4	.8	1.9	6.1	7.8	7.6	8.6	12.4
1997	1.1	.8	1.6	5.4	8.4	7.0	8.0	15.3
1998	1.0	.7	2.1	4.3	6.4	7.8	8.4	12.3
1999	1.5	1.2	2.2	5.9	6.6	-	-	19.2
2000	1.9	1.2	3.0	6.1	7.7	-	-	20.7

Note: Includes only catches counted against Federal TACs.

Source: NMFS weekly production reports, COAR prices, and NMFS permits.

National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 25. Gross product value of groundfish processed by shoreside processors by processor group, 1994-2000. (\$ millions)

	1994	1995	1996	1997	1998	1999	2000
<b>Processor group:</b>							
Alaska Peninsula/Aleutians	28.1	51.5	52.7	49.8	38.4	59.7	46.7
Bering Sea Pollock Processors	259.4	326.4	276.4	202.1	214.6	292.3	396.3
Kodiak	65.6	79.9	102.3	78.9	83.3	88.3	88.4
South Central	27.2	40.9	35.2	38.8	27.3	25.1	29.6
Southeastern	40.4	63.6	45.6	47.2	34.3	31.7	37.5
<b>TOTAL</b>	<b>420.7</b>	<b>562.4</b>	<b>512.3</b>	<b>416.8</b>	<b>397.9</b>	<b>497.1</b>	<b>598.5</b>

Table 25.1 Groundfish gross product value as a percentage of all-species gross product value processed by shoreside processors by processor group, 1994-2000. (percent)

	1994	1995	1996	1997	1998	1999	2000
<b>Processor group:</b>							
Alaska Peninsula/Aleutians	6.8%	12.3%	14.8%	20.3%	13.5%	14.3%	15.4%
Bering Sea Pollock Processors	75.8%	82.2%	82.1%	81.2%	66.3%	70.4%	86.8%
Kodiak	34.8%	34.5%	51.5%	45.1%	40.7%	42.1%	46.4%
South Central	11.4%	19.0%	15.1%	15.6%	15.2%	11.3%	13.8%
Southeastern	12.6%	18.8%	14.8%	18.5%	16.3%	13.4%	16.4%
<b>TOTAL</b>	<b>27.1%</b>	<b>34.6%</b>	<b>34.7%</b>	<b>34.2%</b>	<b>31.6%</b>	<b>31.4%</b>	<b>41.3%</b>

Note: The data are for catch from the EEZ and State waters. The processor groups are defined as follows:

"Bering Sea Pollock Processors" are the AFA inshore pollock processors including the two AFA floating processors.

"Alaska Peninsula/Aleutian" are other processors on the Alaska Peninsula or in the Aleutian Islands.

"Kodiak" are processors on Kodiak Island.

"South Central" are processors west of Yakutat and on the Kenai Peninsula.

"Southeastern" are processors located from Yakutat south.

Source: ADFG Commercial Operators Annual Report, ADFG intent to process.

National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 26. Number and total registered net tons of vessels that caught groundfish off Alaska by area and gear, 1994-2000.

	Gulf of Alaska		Bering Sea and Aleutian		All Alaska	
	Number of vessels	Registered net tons	Number of vessels	Registered net tons	Number of vessels	Registered net tons
<b>Gear/Year</b>						
<b>Hook and line</b>						
1994	1,385	51,264	138	17,822	1,409	54,422
1995	1,106	39,203	175	18,395	1,158	45,317
1996	1,016	38,283	158	16,902	1,065	44,387
1997	975	32,455	137	15,616	1,004	38,116
1998	888	31,332	115	16,032	927	38,479
1999	932	32,668	116	15,464	970	37,636
2000	1,029	31,224	148	18,202	1,092	41,410
<b>Pot</b>						
1994	110	5,767	40	5,253	136	9,787
1995	188	13,939	125	16,199	262	24,161
1996	146	9,121	103	14,579	217	20,151
1997	146	8,847	83	11,816	200	17,433
1998	181	11,054	79	12,033	233	19,585
1999	212	16,449	104	16,526	270	24,940
2000	253	19,446	104	15,813	314	28,260
<b>Trawl</b>						
1994	187	34,247	163	77,830	255	84,565
1995	220	49,909	184	80,551	264	86,024
1996	198	39,226	191	77,771	276	83,356
1997	205	36,394	167	70,949	261	77,350
1998	191	31,078	166	68,074	256	74,394
1999	172	25,785	166	55,281	242	60,200
2000	140	19,229	156	53,240	247	59,744
<b>All gear</b>						
1994	1,570	84,051	334	98,381	1,682	139,075
1995	1,395	95,026	464	112,253	1,544	144,446
1996	1,267	80,662	438	107,043	1,446	138,945
1997	1,244	72,750	380	97,280	1,373	126,544
1998	1,151	66,861	337	92,419	1,283	122,071
1999	1,207	67,571	373	83,925	1,357	112,681
2000	1,288	61,203	393	84,210	1,500	117,389

Note: These estimates include only vessels fishing Federal TACs. Registered net tons totals excludes mainly smaller vessels for which data were unavailable. The percent of vessels missing are: 1994 - 3%, 1995 - 4%, 1996 - 6%, 1997 - 4%, 1998 - 3%, 1999 - 5%, 2000 - 9%.

Source: Blend estimates, fish tickets, Norpac data, federal permit file, CFEC vessel data, National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 27. Number of vessels that caught groundfish off Alaska by area, catcher category, target, and gear, 1996-2000.

Gear/Target/Year	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Catcher vessels	Catcher/ process ors	Total	Catcher vessels	Catcher/ process ors	Total	Catcher vessels	Catcher/ process ors	Total
All gear									
All groundfish									
1996	1,200	67	1,267	324	114	438	1,329	117	1,446
1997	1,179	65	1,244	267	113	380	1,257	116	1,373
1998	1,104	47	1,151	238	99	337	1,184	99	1,283
1999	1,149	58	1,207	285	88	373	1,266	91	1,357
2000	1,244	44	1,288	305	88	393	1,410	90	1,500
Hook and line									
Sablefish									
1996	549	21	570	63	19	82	552	25	577
1997	473	21	494	66	17	83	479	25	504
1998	421	18	439	37	10	47	430	20	450
1999	412	20	432	36	17	53	422	24	446
2000	399	16	415	48	17	65	413	23	436
Pacific cod									
1996	206	16	222	49	39	88	246	41	287
1997	392	16	408	31	38	69	410	41	451
1998	344	8	352	21	37	58	355	37	392
1999	396	23	419	38	38	76	424	42	466
2000	496	14	510	66	41	107	535	42	577
Flatfish									
1996	1	1	2	20	32	52	21	33	54
1997	0	1	1	17	33	50	17	33	50
1998	0	0	0	19	32	51	19	32	51
1999	0	2	2	9	31	40	9	31	40
2000	1	0	1	7	29	36	8	29	37
Rockfish									
1996	462	5	467	10	6	16	468	11	479
1997	372	2	374	9	3	12	379	5	384
1998	346	3	349	8	2	10	349	4	353
1999	385	5	390	12	4	16	390	9	399
2000	395	5	400	12	4	16	402	7	409
All groundfish									
1996	987	29	1,016	114	44	158	1,018	47	1,065
1997	946	29	975	93	44	137	958	46	1,004
1998	866	22	888	72	43	115	884	43	927
1999	902	30	932	75	41	116	926	44	970
2000	1,008	21	1,029	105	43	148	1,048	44	1,092
Pot									
Pacific cod									
1996	145	1	146	86	14	100	200	14	214
1997	141	4	145	69	13	82	186	13	199
1998	166	1	167	71	7	78	211	7	218
1999	200	11	211	89	13	102	254	13	267
2000	247	5	252	90	11	101	298	12	310

Table 27. Continued.

	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Catcher vessels	Catcher/ process ors	Total	Catcher vessels	Catcher/ process ors	Total	Catcher vessels	Catcher/ process ors	Total
<b>Gear/Target/Year</b>									
Trawl									
Pollock									
1996	93	4	97	117	41	158	157	41	198
1997	119	6	125	104	35	139	171	36	207
1998	120	2	122	99	38	137	167	39	206
1999	112	0	112	114	17	131	160	17	177
2000	82	0	82	102	16	118	163	16	179
Pacific cod									
1996	108	16	124	107	39	146	190	41	231
1997	133	9	142	82	41	123	182	43	225
1998	117	13	130	85	36	121	171	36	207
1999	106	9	115	81	26	107	170	27	197
2000	95	6	101	84	27	111	173	27	200
Flatfish									
1996	51	19	70	12	38	50	62	41	103
1997	48	15	63	12	33	45	59	34	93
1998	37	14	51	8	30	38	45	30	75
1999	29	11	40	2	29	31	31	29	60
2000	39	11	50	5	29	34	44	30	74
Rockfish									
1996	29	17	46	0	15	15	29	21	50
1997	23	17	40	0	10	10	23	17	40
1998	26	14	40	0	8	8	26	17	43
1999	28	12	40	1	13	14	29	17	46
2000	32	11	43	0	6	6	32	12	44
Atka mack.									
1996	0	9	9	0	17	17	0	18	18
1997	0	0	0	0	12	12	0	12	12
1998	0	0	0	0	14	14	0	14	14
1999	0	0	0	0	17	17	0	17	17
2000	0	0	0	0	12	12	0	12	12
All groundfish									
1996	160	38	198	129	62	191	213	63	276
1997	173	32	205	108	59	167	201	60	261
1998	167	24	191	115	51	166	205	51	256
1999	154	18	172	126	40	166	202	40	242
2000	122	18	140	117	39	156	207	40	247

Note: A target is calculated based on vessel, week, catching mode, NMFS area, and gear. These estimates include only vessels that fished part of Federal TACs.

Source: Blend estimates, fish tickets, Norpac data, federal permit file, CFEC vessel data, National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 28. Number of vessels, mean length and mean net tonnage for vessels that caught groundfish off Alaska by area, vessel-length class (feet), and gear, 1996-2000 (excluding catcher/processors).

	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Vessel length class			Vessel length class			Vessel length class		
	<60	60-124	>124	<60	60-124	>124	<60	60-124	>124
<b>Number of vessels</b>									
Gear/Year									
Hook and line									
1996	843	141	3	62	52	0	873	142	3
1997	824	119	3	47	46	0	835	120	3
1998	746	118	2	38	34	0	759	123	2
1999	786	114	2	35	38	2	801	121	4
2000	896	110	2	64	40	1	928	117	3
Pot									
1996	83	58	4	7	58	23	87	92	23
1997	90	49	3	5	48	17	91	77	19
1998	125	50	5	4	46	21	125	77	23
1999	134	65	2	4	63	23	136	97	23
2000	150	87	11	5	61	25	151	118	31
Trawl									
1996	60	84	16	7	91	31	65	116	32
1997	58	90	25	3	73	32	59	110	32
1998	54	90	23	6	78	31	56	118	31
1999	55	74	25	11	84	31	63	108	31
2000	55	64	3	9	78	30	61	115	31

Note: If the permit files do not report a length for a vessel, the vessel is counted in the "less than 60 feet" class.

Table 28. Continued.

	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Vessel length class			Vessel length class			Vessel length class		
	<60	60-124	>124	<60	60-124	>124	<60	60-124	>124
<b>Mean vessel length (feet)</b>									
Gear/Year									
Hook and line									
1996	44	76	131	43	75	-	43	76	131
1997	43	77	130	45	75	-	43	77	130
1998	43	75	129	40	75	-	43	75	129
1999	44	75	132	45	74	150	43	74	141
2000	43	76	130	43	78	177	43	76	146
Pot									
1996	50	86	140	41	101	135	50	93	135
1997	50	88	129	55	104	134	50	94	134
1998	52	89	132	57	103	137	52	95	137
1999	52	90	129	44	99	133	52	94	133
2000	53	93	137	52	103	137	53	96	137
Trawl									
1996	56	96	143	51	103	153	56	98	152
1997	56	97	155	48	106	159	56	98	159
1998	57	95	155	49	105	156	56	98	156
1999	57	98	150	46	104	155	56	99	155
2000	57	90	172	55	104	155	57	98	157

Table 28. Continued.

	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Vessel length class			Vessel length class			Vessel length class		
	<60	60-124	>124	<60	60-124	>124	<60	60-124	>124
<b>Mean registered net tons</b>									
Gear/Year									
Hook and line									
1996	27	69	148	25	61	-	27	69	148
1997	23	71	127	28	60	-	22	71	127
1998	23	70	132	23	63	-	23	70	132
1999	23	68	125	26	72	266	23	69	195
2000	23	70	128	28	70	380	23	72	212
Pot									
1996	35	99	133	29	122	160	35	109	160
1997	32	104	152	44	127	160	32	113	160
1998	38	98	142	41	118	146	38	106	147
1999	40	106	142	16	118	168	40	111	168
2000	41	110	199	40	125	160	41	113	168
Trawl									
1996	54	115	174	46	126	226	53	119	223
1997	54	118	223	45	132	250	53	119	250
1998	56	113	227	51	128	222	54	116	222
1999	58	115	202	45	123	230	56	116	230
2000	58	103	317	54	125	226	57	115	233

Note: These estimates include only vessels that fished part of Federal TACs.

Source: Blend estimates, ADFG fish tickets, Norpac, NMFS permits.

National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 28.1 Number of smaller hook-and-line vessels that caught groundfish off Alaska, by area and vessel-length class (feet), 1994-2000 (excluding catcher/processors).

	Vessel length class							
	<26 30	26- 35	30- 40	35- 45	40- 45	45- 50	50- 55	55- 60
<b>Number of vessels</b>								
<b>Gulf of Alaska</b>								
1996	66	15	87	101	199	145	79	151
1997	52	18	84	116	196	134	80	144
1998	38	24	76	97	183	119	70	139
1999	55	20	90	97	178	125	77	144
2000	80	29	100	120	201	138	80	148
<b>Bering Sea and Aleutian</b>								
1996	8	2	9	6	6	7	10	14
1997	1	1	13	2	5	2	5	18
1998	4	1	11	3	6	1	4	8
1999	5	0	7	1	2	3	3	14
2000	13	4	9	6	4	2	7	19
<b>All Alaska</b>								
1996	74	17	94	106	202	147	82	151
1997	52	19	89	116	199	134	81	145
1998	39	25	80	98	186	119	71	141
1999	57	20	96	98	180	126	78	146
2000	91	33	108	123	202	138	83	150

Note: If the permit files do not report a length for a vessel, the vessel is counted in the "<26" class. These estimates include only vessels with catch that counted against Federal TACs.

Source: Blend estimates, ADFG fish tickets, Norpac, NMFS permits.  
 National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 29. Number of vessels, mean length and mean net tonnage for vessels that caught and processed groundfish off Alaska by area, vessel-length class (feet), and gear, 1996-2000.

	Gulf of Alaska					Bering Sea and Aleutian					All Alaska				
	Vessel length class					Vessel length class					Vessel length class				
	<124 164	124- 234	165- 234	235- 259	>260	<124	124- 164	165- 234	235- 259	>260	<124 164	124- 164	165- 234	235- 259	>260
<b>Number of vessels</b>															
Gear/Year															
Hook and line															
1996	19	6	4	0	0	18	13	13	0	0	21	13	13	0	0
1997	20	6	3	0	0	18	15	11	0	0	20	15	11	0	0
1998	14	3	5	0	0	16	15	12	0	0	16	15	12	0	0
1999	17	5	8	0	0	15	15	11	0	0	18	15	11	0	0
2000	14	1	6	0	0	15	16	12	0	0	16	16	12	0	0
Pot															
1996	1	0	0	0	0	6	6	3	0	0	6	6	3	0	0
1997	4	0	0	0	0	6	4	3	0	0	6	4	3	0	0
1998	0	1	0	0	0	2	4	2	0	0	2	4	2	0	0
1999	2	6	3	0	0	3	7	4	0	0	3	7	4	0	0
2000	1	3	1	0	0	2	7	4	0	0	2	8	4	0	0
Trawl															
1996	9	4	19	4	2	9	5	23	7	18	10	5	23	7	18
1997	10	3	16	1	2	12	5	21	5	16	13	5	21	5	16
1998	7	2	14	1	0	8	4	18	5	16	8	4	18	5	16
1999	6	2	7	1	2	9	4	10	3	14	9	4	10	3	14
2000	4	4	8	1	1	8	4	11	3	13	9	4	11	3	13

Note: If the permit files do not report a length for a vessel, the vessel is counted in the "less than 124 feet" class.

Table 29. Continued.

	Gulf of Alaska					Bering Sea and Aleutian					All Alaska				
	Vessel length class					Vessel length class					Vessel length class				
	<124 164	124- 234	165- 234	235- 259	>260	<124 164	124- 234	165- 234	235- 259	>260	<124 164	124- 164	165- 234	235- 259	>260
<b>Mean vessel length (feet)</b>															
Gear/Year															
Hook and line															
1996	92	145	181	-	-	102	142	180	-	-	95	142	180	-	-
1997	91	137	183	-	-	94	143	181	-	-	91	143	181	-	-
1998	92	151	178	-	-	94	145	180	-	-	94	145	180	-	-
1999	96	146	175	-	-	104	143	177	-	-	98	143	177	-	-
2000	106	141	175	-	-	107	144	178	-	-	108	144	178	-	-
Pot															
1996	116	-	-	-	-	101	149	173	-	-	101	149	173	-	-
1997	105	-	-	-	-	111	146	169	-	-	111	146	169	-	-
1998	-	165	-	-	-	118	153	176	-	-	118	153	176	-	-
1999	108	151	171	-	-	112	150	172	-	-	112	150	172	-	-
2000	116	149	180	-	-	118	149	174	-	-	118	146	174	-	-
Trawl															
1996	109	147	204	241	271	111	149	204	241	302	108	149	204	241	302
1997	103	149	207	238	303	107	149	206	241	302	107	149	206	241	302
1998	114	155	213	238	-	115	152	211	241	302	115	152	211	241	302
1999	113	155	207	238	287	114	152	207	245	306	114	152	207	245	306
2000	111	152	205	238	295	116	152	204	245	308	114	152	204	245	308

Table 29. Continued.

	Gulf of Alaska					Bering Sea and Aleutian					All Alaska				
	Vessel length class					Vessel length class					Vessel length class				
	<124 164	124- 234	165- 234	235- 259	>260	<124 164	124- 234	165- 234	235- 259	>260	<124 164	124- 234	165- 234	235- 259	>260
<b>Mean registered net tons</b>															
Gear/Year															
Hook and line															
1996	103	331	708	-	-	116	271	526	-	-	104	271	526	-	-
1997	99	289	846	-	-	106	258	530	-	-	99	258	530	-	-
1998	107	316	808	-	-	110	271	602	-	-	110	271	602	-	-
1999	107	239	604	-	-	121	252	520	-	-	109	252	520	-	-
2000	121	470	454	-	-	122	265	633	-	-	122	265	633	-	-
Pot															
1996	130	-	-	-	-	128	292	397	-	-	128	292	397	-	-
1997	117	-	-	-	-	121	331	245	-	-	121	331	245	-	-
1998	-	793	-	-	-	128	487	583	-	-	128	487	583	-	-
1999	133	399	492	-	-	130	409	478	-	-	130	409	478	-	-
2000	130	579	243	-	-	128	394	250	-	-	128	360	250	-	-
Trawl															
1996	142	249	700	932	2206	141	226	665	1116	1868	141	226	665	1116	1868
1997	117	289	712	533	1611	130	226	707	1056	1897	130	226	707	1056	1897
1998	136	256	766	533	-	150	193	737	1056	1897	150	193	737	1056	1897
1999	136	256	610	533	1618	141	193	624	1130	1853	141	193	624	1130	1853
2000	138	193	754	533	1085	147	193	670	1130	1830	141	193	670	1130	1830

Note: These estimates include only vessels that fished part of Federal TACs.

Source: Blend estimates, NMFS permits.

National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 30. Number of vessels that caught groundfish off Alaska by area, tonnage caught, and gear, 1994-2000.

	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Tonnage caught			Tonnage caught			Tonnage caught		
	Less than 2 t	2 t to 25 t	More than 25 t	Less than 2 t	2 t to 25 t	More than 25 t	Less than 2 t	2 t to 25 t	More than 25 t
<b>Gear/Year</b>									
Hook and line									
1994	467	624	294	20	34	84	465	617	327
1995	481	353	272	38	67	70	483	372	303
1996	418	342	256	40	59	59	430	354	281
1997	384	355	236	33	43	61	384	360	260
1998	351	361	176	24	42	49	349	367	211
1999	407	349	176	30	39	47	409	360	201
2000	414	370	245	48	44	56	438	379	275
Pot									
1994	19	29	62	3	5	32	20	29	87
1995	12	59	117	13	48	64	20	86	156
1996	7	41	98	5	16	82	11	46	160
1997	17	26	103	13	19	51	28	35	137
1998	10	50	121	13	19	47	23	58	152
1999	14	46	152	5	21	78	18	46	206
2000	13	58	182	6	17	81	16	51	247
Trawl									
1994	1	4	182	0	1	162	0	3	252
1995	0	5	215	0	1	183	0	1	263
1996	1	10	187	0	4	187	1	9	266
1997	1	4	200	0	2	165	0	4	257
1998	1	7	183	1	0	165	1	4	251
1999	1	5	166	0	5	161	0	5	237
2000	0	10	130	1	4	151	1	9	237
All gear									
1994	453	608	509	21	40	273	451	600	631
1995	455	378	562	44	109	311	460	411	673
1996	402	354	511	40	76	322	412	364	670
1997	380	354	510	45	61	274	389	362	622
1998	332	386	433	25	55	257	330	390	563
1999	396	372	439	33	61	279	395	379	583
2000	392	393	503	51	56	286	414	386	700

Notes: These estimates include only vessels fishing part of Federal TACs.

Source: Blend estimates, fish tickets, Norpac data, federal permit file, CFEC vessel data, National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 31. Number of vessels that caught groundfish off Alaska by area, residency, target, and gear, 1996-2000.

Gear/Target/Year	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Alaska	Other	Unk.	Alaska	Other	Unk.	Alaska	Other	Unk.
<b>Gear/Target/Year</b>									
<b>All gear</b>									
<b>All groundfish</b>									
1996	913	325	29	126	304	8	953	456	37
1997	905	332	7	101	279	0	925	441	7
1998	819	323	9	85	252	0	842	432	9
1999	836	339	32	91	276	6	862	457	38
2000	918	313	57	98	280	15	949	480	71
<b>Hook and line</b>									
<b>Sablefish</b>									
1996	416	146	8	31	51	0	418	151	8
1997	360	132	2	35	48	0	364	138	2
1998	310	127	2	21	26	0	317	131	2
1999	300	127	5	20	33	0	306	135	5
2000	283	125	7	34	30	1	297	132	7
<b>Pacific cod</b>									
1996	193	25	4	45	40	3	230	50	7
1997	354	51	3	28	41	0	372	76	3
1998	295	54	3	21	37	0	309	80	3
1999	341	67	11	28	47	1	357	97	12
2000	398	93	19	43	57	7	421	130	26
<b>Flatfish</b>									
1996	2	0	0	17	35	0	19	35	0
1997	1	0	0	20	30	0	20	30	0
1998	0	0	0	23	28	0	23	28	0
1999	1	1	0	14	26	0	14	26	0
2000	1	0	0	13	23	0	14	23	0
<b>Rockfish</b>									
1996	386	68	13	4	12	0	388	78	13
1997	317	54	3	9	3	0	324	57	3
1998	289	58	2	9	1	0	293	58	2
1999	311	71	8	7	9	0	314	77	8
2000	317	68	15	8	7	1	321	72	16
<b>All groundfish</b>									
1996	788	204	24	73	82	3	816	222	27
1997	773	196	6	61	76	0	785	213	6
1998	690	191	7	54	61	0	707	213	7
1999	704	204	24	48	67	1	718	227	25
2000	771	216	42	68	71	9	800	242	50
<b>Pot</b>									
<b>Pacific cod</b>									
1996	124	18	4	38	60	2	140	68	6
1997	125	20	0	26	56	0	132	67	0
1998	135	31	1	22	56	0	144	73	1
1999	159	49	3	32	70	0	173	91	3
2000	185	59	8	21	79	1	191	110	9
<b>All groundfish</b>									
1996	124	18	4	41	60	2	143	68	6
1997	125	21	0	27	56	0	132	68	0
1998	148	32	1	22	57	0	157	75	1
1999	159	50	3	32	72	0	173	94	3
2000	186	59	8	22	81	1	193	112	9

Table 31. Continued.

	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Alaska	Other	Unk.	Alaska	Other	Unk.	Alaska	Other	Unk.
<b>Gear/Target/Year</b>									
<b>Trawl</b>									
Pollock									
1996	38	58	1	16	141	1	43	153	2
1997	54	70	1	12	127	0	57	149	1
1998	45	76	1	9	128	0	49	156	1
1999	32	76	4	11	118	2	36	135	6
2000	34	44	4	11	104	3	37	135	7
Pacific cod									
1996	63	61	0	13	131	2	71	158	2
1997	71	71	0	7	116	0	75	150	0
1998	65	64	1	9	112	0	66	140	1
1999	60	54	1	5	100	2	61	133	3
2000	57	44	0	3	106	2	58	140	2
Flatfish									
1996	35	34	1	4	46	0	36	66	1
1997	34	29	0	3	42	0	34	59	0
1998	23	28	0	3	35	0	23	52	0
1999	14	26	0	2	29	0	14	46	0
2000	18	30	2	2	32	0	19	53	2
Rockfish									
1996	21	25	0	1	14	0	22	28	0
1997	16	24	0	1	9	0	16	24	0
1998	15	25	0	2	6	0	16	27	0
1999	13	27	0	1	13	0	13	33	0
2000	18	24	1	1	5	0	18	25	1
Atka mack.									
1996	1	8	0	1	16	0	1	17	0
1997	0	0	0	1	11	0	1	11	0
1998	0	0	0	2	12	0	2	12	0
1999	0	0	0	1	16	0	1	16	0
2000	0	0	0	1	11	0	1	11	0
All groundfish									
1996	76	120	2	19	169	3	78	193	5
1997	76	128	1	16	151	0	79	181	1
1998	74	116	1	13	153	0	75	180	1
1999	61	106	5	15	146	5	65	167	10
2000	61	72	7	12	139	5	62	173	12

Note: A target is calculated based on vessel, week, processing mode, NMFS area, and gear. Vessels are classified by the residency of the owner of the fishing vessel. These estimates include only vessels fishing part of Federal TACs.

Source: Blend estimates, fish tickets, Norpac data, federal permit file, CFEC vessel data, National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 32. Number of vessels that caught groundfish off Alaska by month, area, catcher type, and gear, 1996-2000.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Area/Catcher type/Gear/Year													
Gulf of Alaska													
Catcher vessels (excluding catcher/processors)													
Hook and line													
1996	134	124	250	239	392	338	144	219	194	156	104	31	987
1997	124	115	207	264	423	303	146	196	163	148	79	11	946
1998	88	73	134	199	387	302	164	194	191	160	111	14	866
1999	81	55	154	194	427	342	172	147	166	204	111	7	902
2000	141	162	203	336	473	336	194	167	219	131	103	16	1008
Pot													
1996	102	85	99	13	14	2	1	1	1	2	0	0	145
1997	63	59	58	64	58	14	12	3	16	17	21	31	142
1998	71	68	101	124	32	0	0	0	3	25	28	31	180
1999	66	73	109	128	79	13	0	0	21	22	23	41	201
2000	135	154	176	144	43	4	1	0	5	8	11	21	248
Trawl													
1996	79	96	108	33	15	49	33	29	63	44	21	2	160
1997	85	104	140	42	17	53	24	9	88	28	16	0	173
1998	80	103	118	39	15	79	30	14	70	56	0	0	167
1999	75	99	103	24	4	59	26	8	83	51	1	0	154
2000	69	98	96	34	20	4	32	45	35	35	8	4	122
All gear													
1996	306	295	449	285	419	385	178	248	257	202	124	33	1200
1997	266	277	400	367	492	367	181	207	265	190	115	42	1179
1998	231	242	321	358	429	380	194	207	264	238	139	45	1104
1999	219	225	330	343	497	414	198	155	270	275	134	48	1149
2000	337	404	430	503	526	344	225	211	259	174	122	40	1244
Catcher/processors													
Hook and line													
1996	8	15	13	6	11	15	7	5	5	4	5	0	29
1997	9	10	9	7	13	14	11	4	6	3	3	0	29
1998	5	5	6	6	5	7	8	7	8	4	3	0	22
1999	6	12	12	13	10	10	7	4	5	4	1	0	30
2000	12	10	14	12	3	10	8	3	1	1	3	0	21
Pot													
1996	1	0	0	0	0	0	0	0	0	0	0	0	1
1997	0	0	0	0	0	0	0	1	1	0	2	0	4
1998	0	0	0	0	1	0	0	0	0	0	0	0	1
1999	0	0	0	2	5	10	6	6	1	0	0	0	11
2000	2	3	2	1	3	2	1	0	0	1	1	0	5
Trawl													
1996	1	5	20	16	4	1	21	13	2	12	6	0	38
1997	1	9	15	9	4	2	18	3	0	7	5	0	32
1998	3	2	11	12	5	0	16	7	0	10	0	0	24
1999	3	3	6	9	3	0	12	13	1	7	0	0	18
2000	4	5	5	9	10	0	15	7	0	3	2	0	18
All gear													
1996	10	19	33	22	15	16	28	18	7	16	11	0	67
1997	10	19	24	16	17	16	29	8	7	10	10	0	65
1998	8	7	17	18	11	7	24	14	8	14	3	0	47
1999	9	15	18	24	18	20	25	23	7	11	1	0	58
2000	18	18	21	22	16	12	24	10	1	5	6	0	44

Table 32. Continued.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
<b>Area/Catcher type/Gear/Year</b>													
<b>Bering Sea and Aleutian Islands</b>													
<b>Catcher vessels (excluding catcher/processors)</b>													
<b>Hook and line</b>													
1996	8	6	7	11	33	42	44	42	16	20	10	11	114
1997	2	0	0	11	38	36	26	33	11	11	3	1	93
1998	0	0	1	3	17	27	22	31	14	19	8	0	72
1999	1	1	2	5	19	19	36	28	17	16	7	2	75
2000	2	2	6	12	25	43	39	39	30	22	9	8	105
<b>Pot</b>													
1996	2	1	40	58	50	32	7	12	12	20	10	12	88
1997	2	1	6	33	34	15	7	5	10	18	24	6	70
1998	3	1	5	30	30	8	3	1	6	17	13	2	71
1999	2	2	2	40	54	22	0	0	24	30	1	1	90
2000	43	72	81	1	2	2	1	1	5	1	1	0	91
<b>Trawl</b>													
1996	86	106	110	90	46	4	0	14	109	110	40	0	129
1997	84	95	88	83	28	0	0	15	96	98	0	1	108
1998	91	99	92	70	12	2	2	12	87	92	13	0	115
1999	64	86	80	70	0	0	10	91	73	69	2	1	126
2000	64	89	90	68	0	2	43	75	79	53	22	0	117
All gear													
1996	96	113	157	159	126	77	51	68	137	149	60	22	324
1997	88	96	94	127	99	51	33	53	117	127	27	7	267
1998	94	100	98	102	57	37	27	44	107	128	34	2	238
1999	67	89	84	114	73	41	46	119	114	115	10	4	285
2000	109	163	176	81	27	47	83	115	113	76	32	8	305
<b>Catcher/processors</b>													
<b>Hook and line</b>													
1996	30	26	35	34	40	9	4	5	32	36	28	0	44
1997	25	26	30	30	42	9	8	5	34	36	32	27	44
1998	25	25	27	29	38	23	7	4	30	37	35	32	43
1999	27	28	34	36	27	6	4	8	37	37	8	14	41
2000	35	34	37	20	31	14	5	11	37	36	38	35	43
<b>Pot</b>													
1996	0	0	8	9	10	11	7	7	7	8	2	4	15
1997	1	0	2	4	6	8	7	7	6	6	6	2	13
1998	0	0	0	3	3	5	4	3	4	3	1	1	8
1999	0	0	0	5	11	4	1	1	6	3	0	0	14
2000	7	10	9	1	1	0	0	0	0	0	1	0	13
<b>Trawl</b>													
1996	58	61	59	36	23	20	17	43	54	50	13	0	62
1997	45	56	53	36	25	18	21	42	54	52	16	2	59
1998	49	48	43	25	16	7	17	32	50	47	21	5	51
1999	36	36	37	29	20	6	29	38	37	32	6	2	40
2000	35	37	37	34	19	13	29	37	37	31	12	3	39
All gear													
1996	87	86	101	78	72	40	27	55	92	93	43	4	114
1997	71	82	85	70	73	35	36	54	94	93	54	31	113
1998	74	73	70	57	57	34	28	39	83	87	57	38	99
1999	63	63	71	70	55	16	33	46	78	72	14	16	88
2000	77	80	82	54	50	27	34	48	73	67	51	38	88

Table 32. Continued.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
<b>All Alaska</b>													
<b>Catcher vessels (excluding catcher/processors)</b>													
<b>Hook and line</b>													
1996	140	129	256	250	413	366	170	247	208	172	113	42	1018
1997	126	115	207	275	438	324	166	219	170	152	81	12	958
1998	88	73	135	202	396	323	178	212	203	173	118	14	884
1999	82	56	156	199	439	359	199	169	179	219	118	9	926
2000	143	164	209	347	493	369	226	196	236	149	111	23	1048
<b>Pot</b>													
1996	103	85	134	60	52	34	8	12	13	20	10	12	202
1997	65	60	64	84	82	28	17	8	26	34	43	36	187
1998	73	68	105	144	54	8	3	1	9	36	40	31	225
1999	68	74	111	163	119	34	0	0	43	49	24	42	256
2000	173	206	242	145	45	6	2	1	10	9	12	21	300
<b>Trawl</b>													
1996	162	191	191	121	61	52	33	42	141	142	60	2	213
1997	168	190	185	124	45	53	24	24	150	122	16	1	201
1998	168	190	180	105	27	79	32	26	138	141	13	0	205
1999	139	175	174	93	4	59	36	97	127	111	3	1	202
2000	132	183	180	99	20	6	70	115	112	86	30	4	207
<b>All gear</b>													
1996	396	395	572	431	520	447	211	300	361	333	182	55	1329
1997	353	364	450	480	558	402	206	250	344	304	139	48	1257
1998	321	329	388	445	470	409	213	238	350	347	171	45	1184
1999	286	302	405	451	547	452	235	266	349	377	144	52	1266
2000	440	543	584	580	548	381	296	311	356	244	152	47	1410
<b>Catcher/processors</b>													
<b>Hook and line</b>													
1996	35	35	39	39	43	20	11	9	36	39	28	0	47
1997	29	31	34	37	44	20	15	7	37	38	34	27	46
1998	27	27	29	35	38	25	14	10	35	40	37	32	43
1999	32	36	39	37	29	16	9	11	38	39	9	14	44
2000	39	39	40	24	31	21	10	13	38	37	40	35	44
<b>Pot</b>													
1996	1	0	8	9	10	11	7	7	7	8	2	4	15
1997	1	0	2	4	6	8	7	7	7	6	6	2	13
1998	0	0	0	3	3	5	4	3	4	3	1	1	8
1999	0	0	0	5	12	10	7	7	7	3	0	0	14
2000	8	11	10	2	4	2	1	0	0	1	2	0	14
<b>Trawl</b>													
1996	58	62	60	46	25	21	30	44	54	53	18	0	63
1997	45	56	56	40	27	19	26	42	54	54	21	2	60
1998	50	50	45	30	20	7	26	32	50	48	21	5	51
1999	37	39	39	34	21	6	29	38	37	37	6	2	40
2000	38	39	39	37	23	13	34	38	37	34	14	3	40
<b>All gear</b>													
1996	93	95	106	93	77	52	47	60	96	99	48	4	117
1997	75	87	92	81	77	47	48	56	98	97	61	31	116
1998	77	77	74	68	61	36	44	45	88	91	59	38	99
1999	69	74	78	76	59	32	44	55	79	79	15	16	91
2000	85	88	88	62	57	36	45	51	74	72	55	38	90

Notes: These estimates include only vessels fishing part of Federal TACs.

Source: Blend estimates, fish tickets, Norpac data, federal permit file, CFEC vessel data, National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 33. Catcher vessel (excluding catcher/processors) weeks of fishing groundfish off Alaska by area, vessel-length class (feet), gear, and target, 1996-2000.

Gear/Target/Year	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Vessel length class			Vessel length class			Vessel length class		
	<60	60-124	>124	<60	60-124	>124	<60	60-124	>124
<b>Gear/Target/Year</b>									
<b>Hook and line</b>									
Sablefish									
1996	1197	455	5	48	84	-	1245	539	5
1997	1052	355	2	58	85	-	1109	440	2
1998	952	306	1	16	42	-	968	348	1
1999	915	302	-	22	48	-	938	350	-
2000	1028	324	-	96	56	-	1123	380	-
Pacific cod									
1996	731	48	1	268	7	0	999	55	1
1997	1269	50	1	94	13	-	1362	63	1
1998	1036	66	2	89	5	-	1125	71	2
1999	1058	74	3	85	39	4	1143	113	7
2000	1913	101	2	141	35	2	2054	136	4
Flatfish									
1996	0	-	-	11	14	-	11	14	-
1997	-	-	-	20	8	-	20	8	-
1998	-	-	-	57	7	-	57	7	-
1999	-	0	-	11	5	-	11	5	-
2000	1	-	-	5	7	-	6	7	-
Rockfish									
1996	1112	42	-	3	10	1	1115	52	1
1997	795	29	-	9	1	-	804	30	-
1998	767	40	4	3	3	-	770	43	4
1999	797	49	-	10	7	-	807	56	-
2000	748	52	1	7	5	-	754	57	1
All groundfish									
1996	3111	567	7	330	121	1	3441	689	8
1997	3167	444	4	183	114	-	3350	558	4
1998	2819	422	7	165	60	-	2984	482	7
1999	2821	432	3	129	107	4	2950	540	7
2000	3791	486	4	248	118	6	4039	604	10
Pot									
Pacific cod									
1996	515	299	15	22	427	129	538	726	144
1997	723	300	4	6	240	108	729	540	111
1998	790	297	4	8	167	55	798	464	59
1999	1018	363	1	4	250	115	1021	613	116
2000	1091	499	44	3	245	136	1094	744	180
All groundfish									
1996	518	300	15	26	429	129	545	729	144
1997	731	302	4	6	241	108	737	543	111
1998	917	298	4	8	168	55	925	466	59
1999	1023	365	1	4	254	119	1026	619	120
2000	1095	502	44	3	269	137	1098	771	181

Table 33. Continued.

	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Vessel length class			Vessel length class			Vessel length class		
	<60	60-124	>124	<60	60-124	>124	<60	60-124	>124
<b>Trawl</b>									
Pollock									
1996	90	205	19	4	790	396	94	995	415
1997	182	299	24	1	612	397	182	911	421
1998	203	429	44	5	624	451	208	1053	496
1999	132	335	45	6	534	383	138	870	428
2000	105	283	1	3	723	493	109	1006	494
Pacific cod									
1996	356	232	6	2	583	132	358	815	138
1997	340	281	7	-	415	106	340	696	113
1998	298	222	3	4	386	95	302	608	98
1999	282	220	6	0	340	81	282	560	87
2000	187	185	2	1	383	55	188	568	57
Flatfish									
1996	70	299	-	-	15	9	70	314	9
1997	51	240	-	-	10	45	51	250	45
1998	16	133	-	-	3	5	16	135	5
1999	3	73	-	-	-	3	3	73	3
2000	19	209	-	-	4	6	19	213	6
Rockfish									
1996	3	67	-	-	-	-	3	67	-
1997	2	32	-	-	-	-	2	32	-
1998	3	64	-	-	-	-	3	64	-
1999	-	59	2	-	0	-	-	59	2
2000	-	95	-	-	-	-	-	95	-
All groundfish									
1996	520	831	27	6	3265	862	526	4096	889
1997	576	896	32	2	2504	689	578	3400	721
1998	543	902	49	9	2646	605	552	3549	654
1999	418	691	53	7	1807	520	425	2497	573
2000	312	777	3	4	2057	555	316	2834	558
All gear									
All groundfish									
1996	4149	1698	49	362	3816	993	4512	5514	1041
1997	4474	1641	40	190	2859	796	4664	4500	836
1998	4279	1623	60	182	2874	660	4461	4497	720
1999	4261	1488	58	140	2168	642	4401	3656	700
2000	5198	1765	51	256	2444	698	5454	4209	749

Notes: A vessel that fished more than one category in a week is apportioned a partial week based on catch weight. A target is calculated based on vessel, week, processing mode, NMFS area, and gear. All groundfish include additional target categories.

Source: Blend estimates, fish tickets, Norpac data, federal permit file, CFEC vessel data, National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0700.

Table 34. Catcher/processor vessel weeks of fishing groundfish off Alaska by area, vessel-length class (feet), gear, and target, 1996-2000.

Gear/Target/Year	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Vessel length class			Vessel length class			Vessel length class		
	<60	60-124	125-230	<60	60-124	125-230	<60	60-124	125-230
<b>Hook and line</b>									
Sablefish									
1996	15	43	21	-	51	15	15	93	36
1997	10	38	15	-	34	13	10	72	28
1998	14	38	15	1	17	2	15	55	17
1999	7	41	16	-	28	20	7	69	36
2000	13	41	20	-	40	16	13	81	36
Pacific cod									
1996	-	56	6	-	201	579	-	257	585
1997	1	36	6	-	196	736	1	232	742
1998	-	30	2	-	174	720	-	204	723
1999	8	53	11	-	184	585	8	237	597
2000	-	63	2	-	225	727	-	287	729
Flatfish									
1996	0	-	-	3	40	29	3	40	29
1997	-	0	-	7	38	40	7	38	40
1998	-	-	-	12	64	90	12	64	90
1999	-	-	0	4	44	46	4	44	47
2000	-	-	-	4	35	71	4	35	71
All groundfish									
1996	17	99	27	3	295	626	20	394	653
1997	12	75	21	7	268	791	19	343	812
1998	14	68	18	13	256	813	27	324	831
1999	16	96	28	4	258	653	20	354	681
2000	13	104	23	4	299	815	17	403	838
<b>Pot</b>									
Pacific cod									
1996	-	-	-	-	56	159	-	56	159
1997	-	-	-	-	43	85	-	43	85
1998	-	-	0	-	29	48	-	29	48
1999	-	21	70	-	11	53	-	32	122
2000	-	12	19	-	2	56	-	14	75
All groundfish									
1996	-	-	-	-	57	163	-	57	163
1997	-	-	-	-	43	85	-	43	85
1998	-	-	0	-	29	48	-	29	48
1999	-	21	70	-	11	60	-	32	129
2000	-	12	19	-	2	58	-	14	77

Table 34. Continued.

	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Vessel length class			Vessel length class			Vessel length class		
	60- 124	125- 230	>230	60- 124	125- 230	>230	60- 124	125- 230	>230
<b>Trawl</b>									
Pollock									
1996	-	0	0	0	148	319	0	148	319
1997	-	0	0	-	96	243	-	97	243
1998	1	-	-	2	134	290	3	134	290
1999	-	-	-	-	25	261	-	25	261
2000	-	-	-	-	30	301	-	30	301
Pacific cod									
1996	3	6	4	23	67	23	25	73	28
1997	15	1	-	30	71	18	45	72	18
1998	13	10	-	27	66	31	40	75	31
1999	16	3	-	32	59	27	48	62	27
2000	4	5	-	43	45	18	47	51	18
Flatfish									
1996	124	46	1	139	315	71	262	361	72
1997	63	22	-	174	444	66	237	466	66
1998	53	21	-	140	336	57	193	357	57
1999	62	19	0	132	226	53	195	245	53
2000	86	25	4	142	327	55	228	351	59
Rockfish									
1996	3	29	1	-	38	5	3	67	7
1997	4	32	2	-	16	4	4	48	6
1998	2	27	0	1	13	3	3	39	3
1999	4	32	4	0	16	4	4	48	8
2000	0	23	1	-	10	6	0	33	7
Atka mack.									
1996	1	2	0	-	162	29	1	164	29
1997	-	-	-	-	79	13	-	79	13
1998	-	-	-	2	87	14	2	87	14
1999	-	-	-	3	88	27	3	88	27
2000	-	-	-	0	64	30	0	64	30
All groundfish									
1996	130	84	7	164	732	448	294	816	455
1997	83	55	2	204	706	343	286	761	345
1998	68	57	0	173	636	396	241	693	396
1999	82	54	4	168	415	373	250	469	377
2000	91	53	4	185	476	411	276	529	415

Table 34. Continued.

	Gulf of Alaska				Bering Sea and Aleutian				All Alaska			
	Vessel length class				Vessel length class				Vessel length class			
	<60	60-	125-	>230	<60	60-	125-	>230	<60	60-	125-	>230
		124	230			124	230			124	230	
All gear												
All groundfish												
1996	17	230	111	7	3	515	1520	448	20	745	1632	455
1997	12	157	76	2	7	515	1582	343	19	672	1658	345
1998	14	136	76	0	13	458	1496	396	27	594	1572	396
1999	16	199	152	4	4	437	1127	373	20	636	1279	377
2000	13	207	95	4	4	486	1348	411	17	693	1444	415

Notes: A vessel that fished more than one category in a week is apportioned a partial week based on catch weight. A target is calculated based on vessel, week, processing mode, NMFS area, and gear. All groundfish include additional target categories.

Source: Blend estimates, fish tickets, Norpac data, federal permit file, CFEC vessel data, National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 35. Total at-sea processor crew weeks in groundfish fisheries off Alaska by month and area, 1996-2000.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
<b>Area/Year</b>													
<b>Gulf of Alaska</b>													
1996	194	516	3,112	1,487	382	407	1,990	613	21	649	380	-	9,750
1997	160	430	967	714	187	390	1,809	89	97	333	310	-	5,485
1998	226	327	465	897	182	241	2,233	262	103	366	-	-	5,301
1999	322	549	471	1,197	423	684	1,544	976	52	431	-	-	6,647
2000	747	943	562	941	615	349	1,437	375	-	224	83	-	6,301
<b>Area/Year</b>													
<b>Bering Sea and Aleutian Islands</b>													
1996	9,729	28,044	21,227	12,130	5,911	4,184	2,468	6,802	23,776	18,327	2,087	25	134711
1997	5,056	22,832	19,922	8,760	6,904	2,422	2,315	6,457	21,816	10,209	5,522	1,978	114192
1998	8,991	17,768	11,501	6,232	5,190	2,231	2,000	5,574	16,136	18,498	5,318	1,624	101064
1999	6,938	14,291	11,519	5,958	4,730	1,078	3,273	7,596	12,447	10,491	1,587	684	80,591
2000	6,805	16,004	13,585	7,650	3,480	1,452	4,053	9,779	14,920	8,841	4,028	1,935	92,533
<b>Area/Year</b>													
<b>All Alaska</b>													
1996	9,923	28,560	24,339	13,618	6,292	4,591	4,458	7,416	23,797	18,975	2,467	25	144461
1997	5,216	23,262	20,889	9,474	7,091	2,812	4,124	6,546	21,913	10,541	5,831	1,978	119677
1998	9,217	18,096	11,965	7,129	5,371	2,472	4,233	5,836	16,239	18,864	5,318	1,624	106365
1999	7,260	14,839	11,990	7,154	5,153	1,762	4,816	8,572	12,499	10,922	1,587	684	87,238
2000	7,552	16,947	14,148	8,591	4,095	1,801	5,490	10,154	14,945	9,065	4,111	1,935	98,833

Note: Crew weeks are calculated by summing weekly reported crew size over vessels and time period.

These estimates include only vessels targeting groundfish counted toward Federal TACs.

Catcher/processors accounted for the following proportions of the total crew weeks in all areas:

1996 - 76%, 1997 - 84%, 1998 - 93%, 1999 - 97%, 2000 - 90%.

Source: Weekly Processor Reports National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 36. Production and value of groundfish products in the fisheries off Alaska by species, 1996-2000, (1,000 metric tons product weight and million dollars).

	1996		1997		1998		1999		2000	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>Pollock</b>										
Whole fish	3.18	\$2.7	2.89	\$2.0	.93	\$.4	14.18	\$3.8	2.63	\$1.3
H&G	.69	\$.5	.66	\$.5	6.71	\$4.0	4.54	\$3.5	7.11	\$5.9
Roe	14.43	\$175.5	17.42	\$168.5	12.82	\$85.4	11.22	\$136.6	16.01	\$285.2
Deep-skin fillets	29.31	\$79.6	22.51	\$63.7	24.40	\$77.2	28.74	\$104.0	25.57	\$61.5
Other fillets	27.36	\$67.6	9.87	\$21.0	31.67	\$80.7	24.98	\$71.1	33.35	\$60.8
Surimi	154.30	\$286.4	92.99	\$233.6	102.31	\$205.7	154.27	\$334.1	191.65	\$338.7
Minced fish	11.61	\$12.2	7.67	\$6.0	14.73	\$16.5	6.48	\$7.1	8.99	\$11.5
Fish meal	35.25	\$20.7	29.34	\$18.2	26.56	\$21.6	46.94	\$30.0	50.25	\$30.4
Other products	.90	\$.8	.03	\$.1	5.37	\$3.8	.69	\$.5	7.01	\$2.9
All products	277.03	\$646.0	183.39	\$513.5	225.50	\$495.2	292.03	\$690.7	342.58	\$798.1
<b>Pacific cod</b>										
Whole fish	7.49	\$8.2	3.79	\$3.8	1.45	\$1.4	2.78	\$3.3	3.13	\$3.7
H&G	58.00	\$97.6	69.61	\$92.3	61.63	\$124.8	65.84	\$168.7	66.65	\$174.2
Salted/split	8.16	\$17.8	-	-	-	-	-	-	-	-
Fillets	19.76	\$76.0	23.81	\$95.0	19.00	\$76.5	16.63	\$88.0	17.35	\$81.7
Other products	15.23	\$20.8	16.07	\$16.9	8.08	\$10.3	11.80	\$14.6	11.01	\$23.7
All products	108.65	\$220.3	113.29	\$208.0	90.16	\$212.9	97.04	\$274.6	98.14	\$283.3
<b>Sablefish</b>										
H&G	11.18	\$100.3	9.60	\$91.3	9.33	\$67.7	8.74	\$72.6	9.02	\$85.9
Other products	.08	\$.2	.68	\$.67	.15	\$.7	.05	\$.2	.19	\$1.2
All products	11.27	\$100.5	10.28	\$98.0	9.48	\$68.3	8.79	\$72.8	9.21	\$87.1

Table 36. Continued.

	1996		1997		1998		1999		2000	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>Flatfish</b>										
Whole fish	31.78	\$29.7	48.87	\$32.4	33.99	\$23.9	13.10	\$14.6	15.40	\$16.3
H&G	37.67	\$69.3	51.85	\$72.6	39.44	\$50.1	37.90	\$49.0	47.06	\$63.1
Kirimi	14.06	\$21.7	15.54	\$17.9	6.30	\$3.8	4.21	\$4.4	6.37	\$5.9
Fillets	2.37	\$12.0	1.91	\$8.4	1.04	\$5.3	.63	\$2.8	1.77	\$6.0
Other products	2.44	\$.7	1.10	\$.9	.86	\$.5	.70	\$.4	.85	\$.4
All products	88.31	\$133.4	119.26	\$132.1	81.63	\$83.6	56.54	\$71.2	71.45	\$91.7
<b>Rockfish</b>										
Whole fish	2.26	\$2.2	1.32	\$1.6	2.14	\$2.5	8.75	\$5.1	1.25	\$2.0
H&G	11.57	\$20.5	11.22	\$18.7	9.31	\$11.8	10.20	\$12.8	8.31	\$12.7
Other products	1.21	\$3.5	1.16	\$3.7	1.09	\$4.4	1.00	\$2.9	1.87	\$4.3
All products	15.03	\$26.1	13.71	\$24.1	12.55	\$18.7	19.94	\$20.7	11.42	\$19.0
<b>Atka mackerel</b>										
Whole fish	16.72	\$15.1	6.84	\$4.2	4.87	\$2.5	10.10	\$4.7	2.92	\$1.2
H&G	38.82	\$52.8	22.27	\$30.0	21.96	\$15.1	22.23	\$18.2	22.57	\$20.0
Other products	.83	\$.8	1.85	\$2.5	-	-	.03	\$.0	-	-
All products	56.37	\$68.7	30.96	\$36.7	26.83	\$17.6	32.37	\$22.9	25.49	\$21.2
Total	609.03	\$1,266.4	544.00	\$1,153.2	521.02	\$1,027.4	529.45	\$1,180.7	574.75	\$1,326.8

Notes: Totals include additional species not listed in the production details as well as confidential data from Tables 37 and 38. For shoreside processors, these estimates include production resulting from catch from Federal and State of Alaska fisheries. For at-sea processors, they only include production from catches counted against Federal TACs.

Source: Weekly processor report and commercial operators annual report.  
National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 36.1 Price per pound of groundfish products in the fisheries off Alaska by species and processing mode, 1996-2000 (dollars).

	1996		1997		1998		1999		2000	
	At-sea	Shoreside	At-sea	Shoreside	At-sea	Shoreside	At-sea	Shoreside	At-sea	Shoreside
<b>Pollock</b>										
Whole fish	\$ .38	\$ .25	\$ .32	\$ .25	\$ .18	\$ .24	\$ .18	\$ .10	\$ .23	\$ .35
H&G	\$ .31	-	\$ .27	-	\$ .27	\$ .35	\$ .35	-	\$ .37	-
Roe	\$ 6.06	\$ 4.43	\$ 5.07	\$ 2.78	\$ 3.52	\$ 2.07	\$ 6.03	\$ 4.67	\$ 8.81	\$ 7.28
Deep-skin fillets	\$ 1.23	\$ 1.21	\$ 1.28	\$ 1.15	\$ 1.43	-	\$ 1.64	-	\$ 1.09	-
Other fillets	\$ 1.03	\$ 1.10	\$ .78	\$ .96	\$ 1.12	\$ 1.19	\$ 1.21	\$ 1.31	\$ .69	\$ .88
Surimi	\$ .86	\$ .82	\$ 1.15	\$ .97	\$ 1.03	\$ .70	\$ 1.19	\$ .84	\$ .76	\$ .84
Minced fish	\$ .48	\$ .49	\$ .30	\$ .56	\$ .51	\$ .48	\$ .49	-	\$ .58	\$ .54
Fish meal	\$ .24	\$ .30	\$ .30	\$ .27	\$ .32	\$ .43	\$ .34	\$ .27	\$ .30	\$ .26
Other products	\$ .41	\$ .18	\$ 1.43	-	\$ .39	\$ .31	\$ .32	\$ .20	\$ .16	\$ .20
All products	\$ 1.13	\$ .92	\$ 1.34	\$ .96	\$ 1.08	\$ .78	\$ 1.35	\$ .79	\$ 1.12	\$ .98
<b>Pacific cod</b>										
Whole fish	\$ .39	\$ .52	\$ .26	\$ .51	\$ .25	\$ .49	\$ .44	\$ .55	\$ .45	\$ .55
H&G	\$ .75	\$ 1.17	\$ .60	\$ .72	\$ .92	\$ .85	\$ 1.17	\$ 1.05	\$ 1.19	\$ 1.13
Salted/split	\$ .88	\$ 1.10	-	-	-	\$ 1.10	-	\$ 1.55	-	\$ 1.37
Fillets	\$ 1.46	\$ 1.82	\$ 1.69	\$ 1.84	\$ 1.89	\$ 1.81	\$ 2.04	\$ 2.44	\$ 1.58	\$ 2.22
Other products	\$ .67	\$ .61	\$ .47	\$ .49	\$ .60	\$ .57	\$ 1.15	\$ .44	\$ 1.15	\$ .91
All products	\$ .78	\$ 1.15	\$ .65	\$ 1.23	\$ .95	\$ 1.34	\$ 1.19	\$ 1.46	\$ 1.20	\$ 1.54
<b>Sablefish</b>										
H&G	\$ 3.77	\$ 4.13	\$ 3.85	\$ 4.40	\$ 2.85	\$ 3.38	\$ 3.47	\$ 3.84	\$ 4.04	\$ 4.39
Other products	\$ 1.15	\$ 3.38	\$ 1.61	\$ 4.71	\$ .97	\$ 4.50	\$ 1.26	\$ 2.07	\$ 1.90	\$ 3.25
All products	\$ 3.69	\$ 4.12	\$ 3.76	\$ 4.43	\$ 2.78	\$ 3.40	\$ 3.42	\$ 3.84	\$ 3.95	\$ 4.37
<b>Deep-water flatfish</b>										
Whole fish	\$ .24	-	-	\$ .19	\$ .20	-	-	-	-	-
H&G	\$ .54	-	\$ .28	-	\$ .41	-	\$ .14	-	\$ .56	-
Fillets	-	\$ 2.39	-	\$ 2.06	-	\$ 2.35	-	\$ 1.85	-	\$ 1.83
All products	\$ .38	\$ 2.39	\$ .28	\$ 1.15	\$ .36	\$ 2.35	\$ .14	\$ 1.85	\$ .56	\$ 1.83

Table 36.1 Continued.

	1996		1997		1998		1999		2000	
	At-sea	Shoreside	At-sea	Shoreside	At-sea	Shoreside	At-sea	Shoreside	At-sea	Shoreside
<b>Shallow-water flatfish</b>										
Whole fish	\$ .30	\$ .19	-	\$ .37	-	\$ .33	-	-	-	\$ .44
H&G	\$ .56	-	\$ .61	-	\$ .77	-	\$ .37	-	\$ .38	-
Fillets	-	\$2.50	-	\$2.08	-	\$2.47	-	\$2.17	-	\$1.61
Other products	\$1.25	\$1.42	\$ .87	\$1.11	\$ .81	-	\$1.15	-	\$1.03	-
All products	\$ .83	\$1.62	\$ .72	\$1.74	\$ .77	\$2.22	\$ .50	\$2.17	\$ .80	\$1.48
<b>Other flatfish</b>										
Whole fish	\$ .62	-	\$1.06	-	\$1.38	-	\$1.44	-	\$1.26	-
H&G	\$ .44	-	\$ .35	-	\$ .42	-	\$ .37	-	\$ .29	-
Other products	\$ .36	-	\$ .22	-	\$ .35	-	\$ .47	-	\$ .29	-
All products	\$ .49	-	\$ .44	-	\$ .80	-	\$1.25	-	\$ .91	-
<b>Arrowtooth</b>										
H&G	\$ .39	-	\$ .29	-	\$ .30	-	\$ .41	-	\$ .52	-
Fillets	-	-	-	\$1.17	-	-	-	-	-	-
Other products	-	-	-	\$ .81	\$ .10	-	\$ .29	-	\$ .26	-
All products	\$ .39	-	\$ .29	\$ .93	\$ .30	-	\$ .41	-	\$ .52	-
<b>Flathead sole</b>										
Whole fish	\$ .39	\$ .21	\$ .34	-	\$ .35	\$ .15	\$ .41	-	-	-
H&G	\$ .78	-	\$ .62	-	\$ .56	-	\$ .53	-	\$ .53	-
Fillets	-	\$2.32	-	\$1.81	-	\$2.41	-	\$1.95	-	\$1.31
Other products	\$1.55	-	\$ .95	-	\$ .76	-	\$ .88	-	\$ .82	-
All products	\$ .95	\$1.22	\$ .72	\$1.81	\$ .60	\$2.16	\$ .60	\$1.95	\$ .60	\$1.31
<b>Rock sole</b>										
Whole fish	\$ .30	-	\$ .29	-	\$ .22	-	\$ .21	-	\$ .49	-
H&G	\$ .52	-	\$ .34	-	\$ .57	-	\$ .32	-	\$ .47	-
H&G with roe	\$1.77	-	\$1.20	-	\$1.09	-	\$1.11	-	\$1.06	-
Kirimi	-	-	\$ .60	-	-	-	-	-	-	-
Other products	\$ .37	-	\$ .25	-	\$ .33	-	\$ .28	-	\$ .25	-
All products	\$1.29	-	\$ .83	-	\$ .86	-	\$ .86	-	\$ .81	-

Table 36.1 Continued.

	1996		1997		1998		1999		2000	
	At-sea	Shoreside	At-sea	Shoreside	At-sea	Shoreside	At-sea	Shoreside	At-sea	Shoreside
<b>Rex sole</b>										
Whole fish	\$1.22	\$1.10	\$.96	\$.79	\$1.29	-	\$1.40	-	\$1.17	-
Fillets	-	\$2.76	-	\$2.32	-	\$2.41	-	\$1.79	-	\$2.37
All products	\$1.22	\$1.76	\$.96	\$1.31	\$1.29	\$2.41	\$1.40	\$1.79	\$1.17	\$2.37
<b>Yellowfin sole</b>										
Whole fish	\$.26	-	\$.26	-	\$.22	-	\$.16	-	\$.20	-
H&G	\$.36	-	\$.41	-	\$.30	-	\$.32	-	\$.36	-
Kirimi	\$.70	-	\$.52	-	\$.27	-	\$.47	-	\$.42	-
Other products	\$.09	-	\$.22	-	\$.23	-	\$.26	-	\$.24	-
All products	\$.39	-	\$.35	-	\$.25	-	\$.29	-	\$.32	-
<b>Greenland turbot</b>										
H&G	\$1.60	\$1.33	\$1.46	-	\$1.06	-	\$1.51	\$1.34	\$1.66	\$1.37
Kirimi	-	-	-	-	\$.32	-	-	-	-	-
Other products	\$2.62	-	-	-	-	-	\$.76	-	\$.45	-
All products	\$1.60	\$1.33	\$1.46	-	\$1.05	-	\$1.51	\$1.34	\$1.66	\$1.37
<b>Rockfish</b>										
Whole fish	\$.43	\$.48	\$.71	\$.47	\$.44	\$.63	\$.41	\$.13	\$.69	\$.76
H&G	\$.75	\$1.85	\$.72	\$2.02	\$.49	\$1.83	\$.51	\$1.82	\$.62	\$1.70
Other products	\$1.57	\$1.17	\$1.52	\$1.07	\$.96	\$1.37	\$.83	\$1.32	\$1.12	\$1.04
All products	\$.71	\$1.11	\$.72	\$1.02	\$.49	\$1.18	\$.48	\$.45	\$.63	\$1.13
<b>Atka mackerel</b>										
Whole fish	\$.41	-	\$.28	-	\$.23	-	\$.21	-	\$.19	-
H&G	\$.62	-	\$.61	-	\$.31	-	\$.37	-	\$.40	-
Other products	\$.42	-	\$.60	-	-	-	\$.24	-	-	-
All products	\$.55	-	\$.54	-	\$.30	-	\$.32	-	\$.38	-

Note: Prices based on confidential data have been excluded.

Source: Weekly processor report and commercial operators annual report.

National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 37. Production of groundfish products in the fisheries off Alaska by species, product and area, 1996-2000 (1,000 metric tons product weight).

	Bering Sea and Aleutians					Gulf of Alaska				
	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000
Pollock										
Whole fish	3.15	2.55	.89	4.02	2.54	.03	.34	.04	10.15	.09
H&G	.69	.66	6.67	4.47	7.02	-	-	.04	.07	.10
Roe	13.71	16.13	10.69	10.68	14.66	.72	1.29	2.13	.54	1.34
Fillets	38.70	25.46	40.50	42.44	54.15	17.97	6.93	15.58	11.27	4.77
Surimi	154.30	84.64	72.22	141.01	181.09	-	8.35	30.09	13.26	10.56
Minced fish	11.09	7.46	13.27	6.48	8.99	.51	.21	1.45	-	-
Fish meal	35.25	29.34	26.56	46.94	50.25	-	-	-	-	-
Other products	.90	.03	5.36	.69	7.01	-	-	.01	.00	-
Pacific cod										
Whole fish	2.09	1.43	.90	1.06	.77	5.41	2.37	.55	1.71	2.36
H&G	54.05	65.26	55.19	54.96	58.32	3.95	4.36	6.45	10.88	8.33
Salted/split	8.16	-	-	-	-	-	-	-	-	-
Fillets	9.21	11.04	4.42	6.64	7.71	10.55	12.77	14.58	9.99	9.64
Other products	8.89	7.26	4.45	4.32	7.23	6.34	8.81	3.63	7.48	3.78
Sablefish										
H&G	.97	.60	.58	.88	1.09	10.21	9.00	8.75	7.86	7.93
Other products	.01	.00	.00	.01	.01	.08	.68	.15	.04	.18
Flatfish										
Whole fish	25.90	45.44	31.35	9.64	11.88	5.88	3.43	2.64	3.47	3.52
H&G	33.18	50.04	37.81	36.44	42.32	4.49	1.81	1.63	1.46	4.73
Kirimi	14.06	15.54	6.30	4.21	6.37	-	-	-	-	-
Fillets	.02	-	-	-	-	2.34	1.91	1.04	.63	1.77
Other products	2.44	.81	.86	.70	.85	-	.29	-	-	-
Rockfish										
Whole fish	.93	.01	.04	1.73	.17	1.33	1.31	2.10	7.01	1.08
H&G	6.74	5.64	4.45	5.04	4.30	4.83	5.58	4.86	5.15	4.00
Other products	.00	.00	.01	.02	.01	1.20	1.16	1.09	.98	1.86
Atka mackerel										
Whole fish	16.72	6.84	4.87	10.10	2.92	-	-	-	-	-
H&G	38.01	22.08	21.90	22.18	22.49	.81	.19	.05	.05	.08
Other products	.83	1.85	-	.03	-	-	-	-	-	-

Notes: For shoreside processors, these estimates include production resulting from catch from Federal and State of Alaska fisheries. For at-sea processors, they only include production from catches counted against Federal TACs. A dash indicates that data were not available or were withheld to preserve confidentiality. Confidential data withheld from this table are not included in the totals in Table 36.

Source: Weekly processor report and commercial operators annual report. National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 38. Production of groundfish products in the fisheries off Alaska by species, product and processing mode, 1996-2000, (1,000 metric tons product weight).

	At-sea					On-shore				
	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000
Pollock										
Whole fish	3.15	2.55	.89	4.02	2.54	.03	.34	.04	10.15	.09
H&G	.69	.66	6.71	4.54	7.11	-	-	-	-	-
Roe	9.61	12.24	8.38	7.00	8.39	4.82	5.18	4.44	4.21	7.62
Fillets	38.77	25.46	40.50	32.68	35.15	17.90	6.93	15.58	21.04	23.77
Surimi	85.77	84.64	72.22	64.07	87.17	68.53	8.35	30.09	90.20	104.48
Minced fish	11.10	7.46	13.27	6.48	8.99	.51	.21	1.45	-	-
Fish meal	18.16	13.99	15.05	14.54	17.21	17.09	15.35	11.50	32.40	33.04
Other products	.90	.03	.76	.69	.95	-	-	4.61	-	6.06
Pacific cod										
Whole fish	1.37	.88	.36	.15	.59	6.12	2.92	1.08	2.63	2.54
H&G	55.60	67.53	58.91	59.24	61.15	2.40	2.08	2.73	6.60	5.49
Salted/split	.93	-	-	-	-	7.23	-	-	-	-
Fillets	4.14	4.58	3.00	1.63	2.36	15.62	19.23	16.00	14.99	14.99
Other products	3.81	4.48	2.93	2.02	3.16	11.42	11.59	5.15	9.78	7.86
Sablefish										
H&G	1.96	1.51	1.51	1.66	1.69	9.23	8.09	7.81	7.08	7.33
Other products	.06	.06	.05	.04	.07	.02	.62	.09	.01	.12
Flatfish										
Whole fish	31.07	48.22	33.70	12.43	15.21	.71	.65	.29	.67	.19
H&G	37.02	51.38	39.22	37.79	47.03	.66	.47	.22	.10	.03
Kirimi	14.06	15.54	6.30	4.21	6.37	-	-	-	-	-
Fillets	.02	-	-	-	-	2.34	1.91	1.04	.63	1.77
Other products	2.44	.81	.86	.70	.85	-	.29	-	-	-
Rockfish										
Whole fish	1.52	.48	1.06	4.19	.84	.73	.84	1.08	4.55	.41
H&G	11.04	10.85	8.72	9.74	7.75	.53	.37	.60	.46	.55
Other products	.01	.01	.02	.03	.03	1.19	1.15	1.08	.97	1.84
Atka mackerel										
Whole fish	16.72	6.84	4.87	10.10	2.92	-	-	-	-	-
H&G	38.82	22.27	21.96	22.23	22.57	-	-	-	-	-
Other products	.83	1.85	-	.03	-	-	-	-	-	-

Notes: For shoreside processors, these estimates include production resulting from catch from Federal and State of Alaska fisheries. For at-sea processors, they only include production from catches counted against Federal TACs. A dash indicates that data were not available or were withheld to preserve confidentiality. Confidential data withheld from this table are not included in the totals in Table 36.

Source: Weekly processor report and commercial operators annual report. National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 39. Monthly Japanese landing market price of selected groundfish by species, 1987-2000, in yen/kilogram (weighted average).

Species	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
<b>Flatfish, fresh</b>												
1987	671	721	659	488	440	439	518	492	504	518	543	547
1988	586	695	716	630	523	496	568	497	528	547	546	587
1989	634	712	645	588	505	542	590	486	515	552	613	692
1990	674	704	701	665	497	515	615	629	597	637	687	801
1991	695	840	785	640	548	598	684	699	535	737	752	688
1992	739	799	749	687	567	558	605	584	556	587	600	570
1993	638	746	681	611	487	515	475	651	486	576	512	490
1994	603	592	534	573	585	467	541	542	508	474	454	505
1995	499	510	485	540	478	473	523	511	464	362	415	424
1996	501	556	543	472	431	385	477	550	419	403	418	490
1997	473	500	424	417	472	405	445	605	438	476	387	474
1998	434	482	403	337	391	432	505	567	451	397	404	486
1999	433	446	427	397	372	394	417	506	366	346	365	467
2000	447	469	474	391	335	323	446	497	436	464	441	490
<b>Cod, fresh</b>												
1987	160	144	122	108	74	63	50	110	89	146	182	155
1988	176	112	124	89	90	90	130	114	88	180	223	229
1989	170	155	168	119	105	87	132	129	121	211	204	325
1990	282	230	180	148	123	124	153	113	151	192	242	343
1991	296	279	216	148	124	137	136	128	173	261	398	366
1992	332	316	180	164	128	119	135	134	175	221	366	299
1993	281	285	207	167	118	128	154	215	175	305	319	366
1994	261	272	170	132	98	129	117	115	204	311	288	287
1995	244	185	188	103	64	110	146	146	197	257	401	315
1996	296	235	153	83	68	72	176	149	205	273	304	289
1997	235	174	157	111	105	82	192	177	134	330	269	311
1998	234	167	150	104	88	94	173	172	115	211	289	368
1999	284	276	180	153	109	115	148	154	103	225	315	352
2000	299	256	205	146	104	103	169	162	143	238	329	370
<b>Cod, frozen</b>												
1987	315	305	332	319	317	--	284	340	348	380	334	304
1988	313	274	199	191	215	--	--	224	227	348	--	330
1989	280	300	308	238	236	--	132	202	201	350	384	377
1990	374	427	326	347	411	--	--	373	353	--	320	300
1991	331	290	307	325	312	342	--	332	391	410	456	440
1992	369	324	281	251	264	270	298	322	339	348	315	163
1993	278	148	171	164	206	288	259	148	329	387	260	278
1994	309	258	112	245	264	124	217	258	258	246	264	228
1995	232	182	154	177	196	109	135	184	138	134	259	249
1996	265	220	183	211	146	201	247	326	213	292	299	262
1997	199	210	200	184	131	211	223	133	214	225	195	148
1998	185	137	137	217	138	231	239	401	333	296	266	249
1999	298	257	215	302	220	237	218	266	315	266	283	243
2000	241	202	179	203	199	211	208	283	247	298	273	212

Table 39. Continued.

Species	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
<b>Alaska pollock, fresh</b>												
1987	81	81	45	60	48	43	34	41	40	48	48	39
1988	85	113	69	52	35	40	39	38	33	38	32	58
1989	96	117	67	49	47	43	36	35	31	42	48	70
1990	121	121	76	64	57	58	55	57	50	53	66	94
1991	150	172	168	108	81	87	91	111	89	115	135	146
1992	144	201	132	68	35	33	59	64	51	57	64	74
1993	107	157	141	91	54	56	51	51	37	60	62	72
1994	76	125	118	88	45	46	52	51	44	55	67	74
1995	104	132	131	101	40	38	66	59	40	47	74	72
1996	90	120	110	77	33	27	63	46	42	41	54	91
1997	126	122	110	97	69	65	55	48	33	45	51	70
												1998
80	85	91	86	35	26	37	35	26	33	56	52	
												2000
96	79	96	87	51	51	81	55	27	46	109	129	
<b>Atka mackerel, fresh</b>												
1987	57	44	54	76	67	45	42	41	36	71	42	50
1988	40	41	80	59	86	63	87	90	44	48	37	33
1989	41	37	42	40	47	36	31	55	46	106	53	44
1990	42	54	45	50	42	48	59	61	57	64	79	85
1991	65	93	111	90	101	120	168	143	93	79	80	57
1992	47	36	65	85	88	91	136	95	87	94	84	48
1993	66	41	33	33	24	44	57	56	40	66	46	26
1994	25	28	21	20	28	30	49	50	42	49	35	30
1995	35	31	29	29	37	49	109	98	39	36	27	19
1996	21	22	29	40	51	40	95	69	40	46	69	28
1997	36	40	40	44	55	59	114	79	48	44	27	30
1998	23	31	23	22	26	26	25	28	23	32	35	27
1999	43	44	32	36	38	57	78	88	40	35	29	17
2000	26	23	22	20	27	34	52	44	42	43	47	49
<b>Rockfish, fresh</b>												
1987	1825	1591	1337	957	1118	1282	1466	1518	1393	1420	1318	1427
1988	1703	1378	1395	1375	1309	1431	1573	1366	1275	1256	1419	1628
1989	1760	1493	1670	1583	1513	1765	1935	1835	1588	1682	1830	2056
1990	2058	1975	1919	1896	1803	2049	2316	1961	1643	1948	2017	2231
1991	2328	2054	2074	1937	2035	2145	2553	2328	2003	2320	2513	2630
1992	2992	2653	3281	2204	1951	2174	2383	2307	1786	2177	2808	2613
1993	2847	2987	2452	2480	2053	2004	2050	2140	1783	2010	2445	2633
1994	2687	2861	1944	2363	2205	2433	2230	2118	2069	2075	2323	2778
1995	3214	2725	2360	2545	2142	1993	2234	2189	2149	2373	3179	3119
1996	3471	3586	3510	2630	2321	2188	2234	2374	2419	3012	3073	3414
1997	3770	4240	3281	2699	2760	2384	2472	2475	2873	3117	2943	3433
1998	3348	3753	3365	2721	2729	2790	2675	2574	2636	2831	2238	2181
1999	4518	3750	3872	2935	2992	3041	3324	2634	2951	2512	1736	3035
2000	4049	3932	2934	3061	2645	2620	3292	2419	2734	2777	3112	3270

Source: Monthly Stat. of Agriculture, Forestry, and Fisheries, Stat. and Info. Dept., Ministry of Agriculture, Forestry, and Fishery, Government of Japan. Available from Alaska Fish. Sci. Cen., P.O. Box 15700, Seattle, WA 98115-0070.

Table 40. Monthly Tokyo wholesale prices of selected products, 1988-2000 in yen/kilogram (weighted average).

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
<b>Flatfish, frozen</b>												

1988	496	503	462	451	442	437	408	424	407	419	396	392
1989	409	357	349	421	343	433	410	457	462	472	480	459
1990	496	433	439	463	509	616	570	578	637	526	592	552
1991	449	512	572	570	520	541	565	573	509	543	482	485
1992	499	486	517	511	530	491	423	433	499	437	460	413
1993	412	386	404	427	431	447	431	406	418	423	407	414
1994	423	426	403	450	460	433	470	394	414	433	422	455
1995	446	435	450	455	427	443	447	464	440	466	475	500
1996	478	478	467	520	532	544	575	550	562	550	565	580
1997	538	535	535	536	506	533	512	530	509	508	528	540
1998	482	473	511	505	519	514	509	544	524	518	457	447
1999	471	460	475	516	516	490	524	533	469	484	507	514
2000	468	467	456	491	483	483	522	448	492	470	476	509
Cod, frozen												
1988	499	515	552	505	482	483	472	525	531	507	495	479
1989	472	451	341	600	529	474	511	608	174	529	506	577
1990	566	635	623	588	601	678	690	748	708	684	620	726
1991	702	681	694	704	737	694	764	771	780	800	721	742
1992	798	741	774	770	764	741	750	726	734	665	658	647
1993	643	663	670	671	666	707	614	602	604	587	639	644
1994	610	612	635	648	625	614	665	700	633	652	656	656
1995	644	646	628	649	623	583	571	605	614	527	458	567
1996	586	603	636	689	657	677	715	561	584	624	545	590
1997	484	539	598	613	651	560	610	638	609	555	484	503
1998	452	469	508	532	578	596	589	616	598	571	520	565
1999	603	574	624	678	691	751	728	667	567	559	520	542
2000	477	545	616	629	610	621	628	555	641	516	508	512
Surimi												
1992	683	624	591	541	576	555	504	438	443	438	445	415
1993	360	340	347	348	364	350	367	326	332	295	295	309
1994	322	315	309	302	311	320	309	316	310	319	333	350
1995	340	337	332	335	338	341	356	343	368	353	348	335
1996	334	319	314	330	303	342	334	286	308	309	347	321
1997	356	345	340	351	374	388	383	381	402	391	401	402
1998	389	339	354	337	329	339	333	328	313	313	319	334
1999	315	331	328	339	340	346	337	323	339	351	339	330
2000	321	312	298	307	303	297	304	275	289	276	286	294

Note: From 1988-1995 prices are for six large cities wholesale market, and from 1996-1999 prices are for ten large cities wholesale market.

Source: Monthly Stat. of Agriculture, Forestry, and Fisheries, Stat. and Info. Dep., Ministry of Agriculture, Forestry, and Fisheries, Government of Japan. Available from Alaska Fish. Sci. Cen., P.O. Box 15700, Seattle, WA 98115-0070.

Table 41. U.S. imports of groundfish fillets, steaks, and blocks, 1976-2000, quantity in million lb. product weight and value in million dollars.

Year	Fillets and steaks		Blocks		Total	
	Quantity	Value	Quantity	Value	Quantity	Value
1976	337	\$273	379	\$211	716	\$484
1977	321	305	385	292	706	597
1978	333	341	406	325	739	666
1979	340	385	408	337	748	722
1980	297	341	336	289	633	630
1981	346	415	344	301	690	716
1982	371	458	319	274	690	732
1983	355	449	384	339	739	788
1984	373	459	316	263	689	722
1985	388	500	334	275	722	775
1986	366	542	364	380	730	922
1987	408	759	403	539	812	1,298
1988	323	568	303	382	626	950
1989	333	578	282	325	616	903
1990	262	482	264	373	526	856
1991	255	526	290	444	545	970
1992	221	437	229	304	450	741
1993	236	452	212	219	447	671
1994	229	433	200	184	428	617
1995	232	437	210	213	442	650
1996	223	407	234	213	457	620
1997	219	426	234	231	453	657
1998	236	460	233	271	469	731
1999	272	550	214	250	486	801
2000	284	545	204	209	488	753

Source: U.S. Dep. Commer., Bur. of the Census, Washington, D.C. 20233; and Fisheries of the United States, Natl. Mar. Fish. Serv., Fish. Stat. Div., 1315 East-West Highway, Silver Spring, MD 20910, various issues.

Table 42. U.S. per capita consumption of fish and shellfish, 1970-2000, population in millions and consumption in pounds, edible weight.

Year	Total civilian population	Per capita consumption			Total
		Fresh and frozen	Canned	Cured	
1970	201.9	6.9	4.5	.4	11.8
1971	204.9	6.7	4.3	.5	11.5
1972	207.5	7.1	4.9	.5	12.5
1973	209.6	7.4	5.0	.4	12.8
1974	211.6	6.9	4.7	.5	12.1
1975	213.8	7.5	4.3	.4	12.2
1976	215.9	8.2	4.2	.5	12.9
1977	218.1	7.7	4.6	.4	12.7
1978	220.5	8.1	5.0	.3	13.4
1979	223.0	7.8	4.8	.4	13.0
1980	225.6	7.9	4.3	.3	12.5
1981	227.8	7.8	4.6	.3	12.7
1982	230.0	7.9	4.3	.3	12.5
1983	232.1	8.4	4.7	.3	13.4
1984	234.1	9.0	4.9	.3	14.2
1985	236.2	9.8	5.0	.3	15.1
1986	238.4	9.8	5.4	.3	15.5
1987	240.6	10.7	5.2	.3	16.2
1988	242.8	10.0	4.9	.3	15.2
1989	245.1	10.2	5.1	.3	15.6
1990	247.8	9.6	5.1	.3	15.0
1991	250.5	9.7	4.9	.3	14.9
1992	253.5	9.9	4.6	.3	14.8
1993	256.4	10.2	4.5	.3	15.0
1994	259.2	10.4	4.5	.3	15.2
1995	261.4	10.0	4.7	.3	15.0
1996	264.0	10.0	4.5	.3	14.8
1997	266.4	9.9	4.4	.3	14.6
1998	269.1	10.2	4.4	.3	14.9
1999	271.5	10.4	4.7	.3	15.4
2000	273.9	10.5	4.8	.3	15.6

Note: Per capita consumption represents pounds of edible meat consumed from domestically caught and imported fish and shellfish adjusted for beginning and ending inventories, and exports, divided by the civilian population of the United States as of 1 July of each year. Population estimates for 1980-91 were revised to reflect changes from the 1990 decennial population enumeration. Changes did not significantly alter pounds per capita.

Source: Fisheries of the United States, 2000. Natl. Mar. Fish. Serv., 1315 East-West Highway, Silver Spring, MD 20910, CFS No. 9600, July 2001.

Table 43. U.S. consumption of all fillets and steaks, and fish sticks and portions, total in 1,000 lb and per capita in pounds, product weight, 1980-2000.

Year	Fillets and steaks <sup>1</sup>		Fish sticks and portions	
	Total <sup>2</sup>	Per capita	Total <sup>2</sup>	Per capita
1980	541,440	2.4	451,200	2.0
1981	546,720	2.4	410,040	1.8
1982	575,000	2.5	391,000	1.7
1983	626,670	2.7	417,780	1.8
1984	702,300	3.0	421,380	1.8
1985	755,840	3.2	425,160	1.8
1986	810,560	3.4	429,120	1.8
1987	866,160	3.6	409,020	1.7
1988	776,960	3.2	364,200	1.5
1989	759,810	3.1	367,650	1.5
1990	768,180	3.1	371,700	1.5
1991	751,500	3.0	300,600	1.2
1992	735,150	2.9	228,150	0.9
1993	743,560	2.9	256,400	1.0
1994	803,520	3.1	233,280	0.9
1995	758,060	2.9	313,680	1.2
1996	792,000	3.0	264,000	1.0
1997	799,200	3.0	266,400	1.0
1998	861,120	3.2	242,190	0.9
1999	868,800	3.2	271,500	1.0
2000	931,260	3.4	246,510	0.9

<sup>1</sup>Series revised in 1993 to reflect deduction of fillet production used to produce blocks, exports of foreign fillets and steaks, and changes in population estimates from 1990 decennial population enumeration.

Per Capita multiplied by total U.S. population.

Source: Computed from data from U.S. Dep. of Commerce, Bur. of the Census; and Fisheries of the United States, Natl. Mar. Fish. Serv., Fish. Stat. Div., 1315 East-West Highway, Silver Spring, MD 20910, various issues.

Table 44. Annual U.S. economic indicators: Selected producer and consumer price indexes, 1976-2000.

Year	Producer price index (Index 1982=100)					Consumer price index (Index 1982-84=100)				
	All items		Poultry	Fish	Petrl. products	All items		Meat	Poultry	Fish
	Meat	Poultry	Fish	Petrl. products	Meat	Poultry	Fish			
1976	61.1	69.3	93.0	64.5	36.3	56.9	66.4	76.4	60.2	
1977	64.9	68.1	97.0	69.7	40.5	60.6	64.9	76.9	66.6	
1978	69.9	83.6	108.6	74.1	42.2	65.2	77.0	84.9	73.0	
1979	78.7	93.3	105.6	90.9	58.4	72.6	90.1	89.1	80.1	
1980	89.8	94.1	108.2	87.8	88.6	82.4	92.7	93.7	87.5	
1981	98.0	95.4	108.2	89.4	105.9	90.9	96.0	97.5	94.8	
1982	100.0	100.0	100.0	100.0	100.0	96.5	100.7	95.8	98.2	
1983	101.3	94.3	103.7	105.4	89.9	99.6	99.5	97.0	99.3	
1984	103.7	94.5	115.3	112.7	87.4	103.9	99.8	107.3	102.5	
1985	103.2	90.9	110.4	114.6	83.2	107.6	98.9	106.2	107.5	
1986	100.2	93.9	116.8	124.9	53.2	109.6	102.0	114.2	117.4	
1987	102.8	100.4	103.5	140.0	56.8	113.6	109.6	112.6	129.9	
1988	106.9	99.9	111.6	148.7	53.9	118.3	112.2	120.7	139.4	
1989	112.2	104.8	120.4	142.9	61.2	124.0	116.7	132.7	143.6	
1990	116.3	117.0	113.6	147.2	74.8	130.7	128.5	132.5	146.7	
1991	116.5	113.5	109.9	149.5	67.2	136.2	132.5	131.5	148.3	
1992	117.2	106.7	109.0	156.1	64.7	140.3	130.7	131.4	151.7	
1993	118.9	110.6	111.7	156.5	62.0	144.5	134.6	136.9	156.6	
1994	120.4	104.7	114.7	161.4	59.1	148.2	135.4	141.5	163.7	
1995	124.7	102.9	114.2	170.8	60.8	152.4	135.5	143.5	171.6	
1996	127.7	109.0	119.7	165.9	70.1	156.9	140.2	152.4	173.1	
1997	127.6	111.6	117.4	178.1	68.0	160.5	144.4	156.6	177.1	
1998	124.4	101.3	120.8	183.2	51.3	163.0	141.6	157.1	181.7	
1999	125.5	104.6	114.0	190.9	60.9	166.6	142.3	157.9	185.3	
2000	132.7	114.3	112.9	198.1	91.3	172.2	150.7	159.8	190.4	

Source: Producer prices and price indexes, and consumer price indexes, U.S. Dep. of Labor, Bur. of Labor Statistics.

Table 45. Monthly U.S. economic indicators: Selected producer and consumer price indexes, 1998-2000.

Month	Producer price index (Index 1982=100)					Consumer price index (Index 1982-84=100)			
	All items	Meat	Poultry	Fish	Petr. products	All items	Meat	Poultry	Fish
<b>1998</b>									
Jan.	125.4	102.4	113.6	187.4	57.4	161.6	143.2	155.1	180.7
Feb.	125.0	102.3	115.7	193.0	54.4	161.9	142.4	155.3	180.9
Mar.	124.7	100.0	116.8	187.2	50.6	162.2	142.2	155.1	180.3
Apr.	124.9	101.2	117.2	185.8	52.7	162.5	140.8	154.3	181.0
May	125.1	105.5	116.5	186.4	54.9	162.8	141.0	155.6	180.9
Jun.	124.8	106.0	120.1	177.7	53.2	163.0	141.5	155.5	180.5
Jul.	124.9	103.0	125.4	179.1	52.1	163.2	141.8	156.6	181.4
Aug.	124.2	104.6	128.4	179.8	49.1	163.4	142.2	158.9	183.5
Sep.	123.8	100.0	129.4	178.7	49.7	163.6	141.6	159.3	181.5
Oct.	124.0	98.1	124.6	181.2	51.0	164.0	141.3	161.1	183.1
Nov.	123.6	97.2	123.4	186.3	48.8	164.0	141.4	159.6	183.1
Dec.	122.8	95.5	118.3	175.6	42.2	163.9	140.2	159.3	183.7
<b>1999</b>									
Jan.	122.9	99.1	115.7	186.2	44.9	164.3	139.4	158.5	183.6
Feb.	122.3	98.6	113.6	186.9	42.6	164.5	140.6	157.4	184.3
Mar.	122.6	100.2	113.6	200.9	46.3	165.0	140.3	158.3	183.5
Apr.	123.6	99.8	111.8	185.0	58.7	166.2	140.5	157.6	185.3
May	124.7	104.8	114.4	187.1	59.8	166.2	141.4	155.7	185.9
Jun.	125.2	106.5	115.6	186.9	58.8	166.2	141.8	156.8	184.6
Jul.	125.7	104.3	114.5	188.6	63.6	166.7	142.2	157.3	184.4
Aug.	126.9	108.4	113.7	189.0	68.6	167.1	142.8	158.5	185.2
Sep.	128.0	109.2	115.1	193.6	72.5	167.9	143.9	159.8	184.7
Oct.	127.7	108.7	112.6	196.6	69.5	168.2	144.4	158.1	187.3
Nov.	128.3	106.5	114.1	198.9	71.7	168.3	145.3	159.4	187.9
Dec.	127.8	108.9	113.9	191.0	73.7	168.3	145.3	157.5	186.9
<b>2000</b>									
Jan.	128.3	108.6	111.1	196.1	75.2	168.8	144.7	159.9	186.0
Feb.	129.8	111.2	109.2	207.8	84.0	169.8	146.4	157.9	190.0
Mar.	130.8	112.4	110.9	198.3	89.7	171.2	148.3	158.6	189.9
Apr.	130.7	115.3	111.8	211.2	84.6	171.3	148.8	158.5	189.8
May	131.6	119.4	110.8	204.1	87.6	171.5	150.1	159.6	192.4
Jun.	133.8	119.5	111.8	195.0	97.4	172.4	151.7	159.3	191.9
Jul.	133.7	118.6	111.8	196.8	93.1	172.8	152.7	161.8	189.7
Aug.	132.9	115.3	113.3	200.8	90.6	172.8	153.9	161.3	190.7
Sep.	134.7	111.7	116.6	190.3	102.5	173.7	153.8	160.9	191.9
Oct.	135.4	112.2	116.4	194.4	99.5	174.0	152.9	162.1	192.8
Nov.	135.0	112.2	116.6	190.0	99.6	174.1	152.5	157.2	189.6
Dec.	136.2	115.0	115.1	192.2	91.6	174.0	152.9	160.7	189.5

Source: Producer prices and price indexes, and consumer price indexes, U.S. Dep. of Labor, Bur. of Labor Statistics.

Table 46. Annual foreign exchange rates for selected countries, 1976-2000, in national currency units per U.S. dollar.

Year	Canada (dollar)	Denmark (kroner)	Japan (yen)	ROK (won)	New Zeal. (dollar)	Iceland (kronur)	Norway (kroner)	U.K. (pound)
1976	0.9860	6.0450	296.55	484.00	1.0036	1.822	5.4565	0.5536
1977	1.0635	6.0032	268.51	484.00	1.0301	1.989	5.3235	.5729
1978	1.1407	5.5146	210.44	484.00	.9636	2.711	5.2423	.5210
1979	1.1714	5.2610	219.14	484.00	.9776	3.526	5.0641	.4713
1980	1.1692	5.6359	226.74	607.43	1.0265	4.798	4.9392	.4299
1981	1.1989	7.1234	220.54	681.03	1.4194	7.224	5.7395	.4931
1982	1.2337	8.3324	249.08	731.08	1.3300	12.352	6.4540	.5713
1983	1.2324	9.1450	237.51	775.75	1.4952	24.843	7.2964	.6592
1984	1.2951	10.3566	237.52	805.98	1.7286	31.694	8.1615	.7483
1985	1.3655	10.5964	238.54	870.02	2.0064	41.508	8.5970	.7714
1986	1.3895	8.0910	168.52	881.45	1.9088	41.104	7.3947	.6971
1987	1.3260	6.8400	144.64	822.57	1.6886	38.677	6.7375	.6102
1988	1.2307	6.7320	128.15	731.47	1.5244	43.014	6.5170	.5614
1989	1.1840	7.3100	137.96	671.46	1.6708	57.042	6.9045	.6099
1990	1.1668	6.1890	144.79	707.76	1.6750	58.284	6.2597	.5603
1991	1.1457	6.3960	134.71	733.35	1.7265	58.996	6.4829	.5652
1992	1.2087	6.0360	126.65	780.65	1.8580	57.546	6.2145	.5664
1993	1.2901	6.4840	111.20	802.67	1.8494	67.603	7.0941	.6658
1994	1.3656	6.3610	102.21	803.44	1.6844	69.944	7.0576	.6529
1995	1.3724	5.6020	94.06	771.27	1.5235	64.692	6.3352	.6335
1996	1.3635	5.7990	108.78	804.45	1.4540	66.500	6.4498	.6400
1997	1.3849	6.6092	121.06	950.77	1.5094	70.904	7.0857	.6106
1998	1.4835	6.7008	130.91	1401.44	1.8683	70.958	7.5451	.6038
1999	1.49	6.98	113.91	1188.82	1.89	72.35	7.80	.62
2000	1.49	8.07	107.77	1130.96	2.19	78.62	8.80	.66

ROK - Republic of Korea. U.K. - United Kingdom.

Source: Intl. Financial Statistics, Intl. Mon. Fund, Washington, D.C.

Table 47. Monthly foreign exchange rates for selected countries, 1998-2000, in national currency units per U.S. dollar.

Month	Canada (dollar)	Denmark (kroner)	Japan (yen)	ROK (won)	New Zeal. (dollar)	Iceland (kronur)	Norway (kroner)	U.K. (pound)
<b>1998</b>								
Jan.	1.441	6.92	129.6	1707.3	1.726	72.79	7.50	.612
Feb.	1.433	6.91	125.9	1628.4	1.716	72.32	7.55	.610
Mar.	1.417	6.97	129.1	1489.3	1.746	72.51	7.58	.602
Apr.	1.430	6.92	131.8	1391.6	1.807	71.89	7.53	.598
May	1.445	6.77	134.9	1399.1	1.856	71.34	7.45	.610
Jun.	1.466	6.83	140.3	1397.8	1.952	71.32	7.58	.606
Jul.	1.487	6.85	140.8	1295.8	1.929	71.52	7.62	.608
Aug.	1.535	6.81	144.7	1314.3	1.996	71.59	7.72	.612
Sep.	1.522	6.47	134.5	1375.5	1.983	69.98	7.56	.594
Oct.	1.545	6.23	121.1	1344.1	1.918	68.47	7.43	.590
Nov.	1.540	6.40	120.3	1294.0	1.873	70.01	7.46	.602
Dec.	1.543	6.35	117.1	1213.2	1.915	69.64	7.61	.599
<b>1999</b>								
Jan.	1.519	6.42	113.3	1175.1	1.856	69.46	7.45	.606
Feb.	1.498	6.64	116.7	1188.8	1.840	71.00	7.72	.614
Mar.	1.518	6.83	119.5	1229.7	1.871	72.18	7.82	.617
Apr.	1.488	6.95	119.8	1210.0	1.843	72.99	7.78	.622
May	1.461	6.99	122.0	1197.9	1.808	73.71	7.75	.619
Jun.	1.470	7.16	120.7	1168.9	1.878	74.20	7.87	.627
Jul.	1.489	7.18	119.3	1189.1	1.901	74.47	7.90	.635
Aug.	1.493	7.01	113.2	1198.3	1.902	72.88	7.80	.623
Sep.	1.477	7.08	106.9	1201.0	1.912	72.62	7.84	.616
Oct.	1.478	6.95	106.0	1205.3	1.945	70.78	7.74	.603
Nov.	1.467	7.20	104.7	1177.0	1.952	71.78	7.94	.617
Dec.	1.472	7.36	102.6	1136.8	1.966	72.34	8.01	.620
<b>2000</b>								
Jan.	1.449	7.35	105.3	1131.0	1.951	72.46	8.02	.610
Feb.	1.451	7.57	109.4	1129.8	2.040	73.21	8.24	.625
Mar.	1.461	7.72	106.3	1116.4	2.040	73.67	8.41	.633
Apr.	1.469	7.89	105.6	1110.3	2.016	73.97	8.63	.632
May	1.496	8.23	108.3	1119.5	2.124	76.60	9.05	.663
Jun.	1.477	7.85	106.1	1117.9	2.125	76.81	8.68	.663
Jul.	1.478	7.95	108.2	1115.1	2.175	78.05	8.72	.663
Aug.	1.483	8.25	108.1	1114.5	2.246	80.02	8.95	.672
Sep.	1.486	8.58	106.8	1117.6	2.398	83.02	9.23	.698
Oct.	1.513	8.73	108.4	1131.1	2.499	85.15	9.38	.689
Nov.	1.543	8.70	109.0	1156.5	2.506	87.53	9.35	.701
Dec.	1.522	8.31	112.2	1216.9	2.327	86.08	9.06	.684

ROK - Republic of Korea. U.K. - United Kingdom.

Source: Intl. Financial Statistics, Intl. Mon. Fund, Washington, DC.

Table 48. Monthly U.S. cold storage holdings of selected groundfish blocks, 1998-2000, in 1,000 lb (end of month).

Month	Cod	Flounder	Alaska pollock	Pollock, other	Whiting	Minced	Total*
<b>1998</b>							
Jan.	10,036	1,747	21,295	6,010	678	8,475	52,187
Feb.	5,871	919	19,070	8,141	683	8,384	46,241
Mar.	4,134	633	11,006	6,539	718	3,646	28,592
Apr.	3,609	505	12,087	8,777	420	3,845	31,432
May	5,077	665	14,979	8,558	812	12,232	45,271
Jun.	3,655	2,023	12,168	10,876	538	14,594	47,932
Jul.	4,541	1,005	13,517	13,804	918	14,539	53,244
Aug.	5,865	1,697	12,377	11,121	1,784	12,636	54,881
Sep.	4,867	2,501	16,791	4,417	630	11,272	43,921
Oct.	5,626	3,798	14,857	5,241	785	12,214	45,417
Nov.	5,882	3,611	17,728	5,923	1,059	12,997	51,206
Dec.	6,773	3,269	23,866	11,380	863	16,084	66,694
<b>1999</b>							
Jan.	6,086	2,890	26,368	8,541	790	13,948	62,313
Feb.	5,253	2,242	18,417	4,490	1,050	5,704	41,270
Mar.	5,368	1,374	18,535	3,596	1,017	3,585	36,962
Apr.	6,056	952	24,214	12,492	1,373	5,905	54,232
May	5,383	740	25,264	14,584	785	4,474	53,790
Jun.	5,169	587	27,691	16,929	1,854	3,769	58,340
Jul.	6,143	475	24,422	16,795	775	5,739	57,736
Aug.	5,490	487	22,439	13,162	666	5,408	50,763
Sep.	5,004	655	22,156	9,695	336	5,225	46,599
Oct.	4,723	744	21,331	9,558	582	4,240	44,460
Nov.	4,110	705	15,473	9,757	586	8,188	42,154
Dec.	4,817	763	12,264	12,390	464	9,289	43,244
<b>2000</b>							
Jan.	4,073	863	12,237	14,266	522	8,499	43,739
Feb.	3,340	456	11,479	12,979	432	6,541	38,414
Mar.	3,242	440	11,738	9,285	392	7,279	34,409
Apr.	2,679	318	9,923	7,308	361	6,788	29,981
May	2,959	223	7,894	6,608	188	8,611	29,027
Jun.	2,637	188	5,703	6,167	255	8,112	28,948
Jul.	2,146	301	4,644	4,771	251	8,164	23,149
Aug.	1,993	245	6,571	3,833	342	7,264	22,601
Sep.	1,820	276	7,438	4,915	335	6,459	23,489
Oct.	1,935	254	9,363	5,471	569	6,585	26,306
Nov.	1,749	178	6,877	2,489	614	7,778	21,739
Dec.	1,871	338	8,138	8,978	546	8,244	30,422

Notes: \* Total includes other species not listed.

Source: Natl. Mar. Fish. Serv., Fish. Stat. Div., Silver Spring, MD s20910.

Table 49. Monthly U.S. cold storage holdings of selected groundfish fillets, 1998-2000, in 1,000 lb (end of month).

Month	Cod	Flounder	Ocean perch	Alaska pollock	Pollock, other	Whiting	Total*
<b>1998</b>							
Jan.	21,215	4,264	1,643	7,515	2,916	4,177	79,000
Feb.	20,518	4,423	1,249	7,820	1,388	2,688	64,348
Mar.	21,628	6,080	1,318	8,176	1,528	2,208	71,119
Apr.	23,914	11,738	1,314	7,839	1,709	1,816	73,953
May	21,412	12,037	1,711	6,105	1,759	2,252	65,310
Jun.	18,830	12,371	2,339	5,899	1,751	8,039	68,109
Jul.	19,147	12,400	4,297	5,824	1,623	6,883	69,300
Aug.	16,190	12,406	4,393	4,284	2,313	8,210	65,531
Sep.	14,831	13,138	4,585	6,051	2,436	8,358	67,702
Oct.	13,599	6,544	4,255	15,179	2,539	7,604	69,712
Nov.	13,626	6,294	4,131	13,786	2,964	33,907	94,227
Dec.	13,291	6,270	4,656	12,389	4,144	9,559	70,020
<b>1999</b>							
Jan.	13,694	6,275	4,045	10,435	3,423	7,246	62,971
Feb.	11,891	5,263	3,993	11,781	3,115	5,424	58,895
Mar.	15,698	4,663	3,800	18,215	2,621	5,439	67,397
Apr.	16,532	4,167	4,170	16,503	2,474	4,349	69,241
May	18,097	3,658	3,635	15,968	2,402	4,172	64,968
Jun.	18,624	4,435	3,788	16,261	2,461	5,624	67,463
Jul.	19,646	4,788	3,032	13,830	2,304	7,697	67,407
Aug.	19,118	5,002	1,899	14,183	1,958	10,583	70,492
Sep.	17,982	4,543	2,546	16,534	1,945	11,290	73,178
Oct.	18,161	4,655	2,348	20,670	2,270	9,650	74,602
Nov.	17,556	4,702	2,163	24,016	1,949	9,652	76,890
Dec.	18,673	3,956	2,178	21,462	3,060	9,882	76,652
<b>2000</b>							
Jan.	20,626	4,728	2,290	19,664	2,972	9,762	79,973
Feb.	27,711	4,221	1,859	22,822	2,797	9,265	86,956
Mar.	34,518	3,890	1,573	32,744	2,471	8,593	99,988
Apr.	40,493	3,533	1,547	46,241	1,969	7,494	119,482
May	40,628	5,517	1,460	40,646	1,870	5,997	114,606
Jun.	37,173	5,477	1,217	34,306	2,186	3,028	98,459
Jul.	35,669	4,253	1,096	32,204	1,905	1,482	96,037
Aug.	32,063	4,709	1,099	33,385	2,138	1,486	93,410
Sep.	30,036	6,631	1,035	32,738	1,997	2,176	95,275
Oct.	28,975	5,125	973	36,888	2,094	2,169	96,092
Nov.	28,158	5,169	968	30,255	2,371	4,412	91,542
Dec.	26,463	5,153	1,162	25,903	2,573	4,332	87,179

Notes: \* Total includes other species not listed.

Source: Natl. Mar. Fish. Serv., Fish. Stat. Div., Silver Spring, MD 20910.

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